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66/250" 12602660

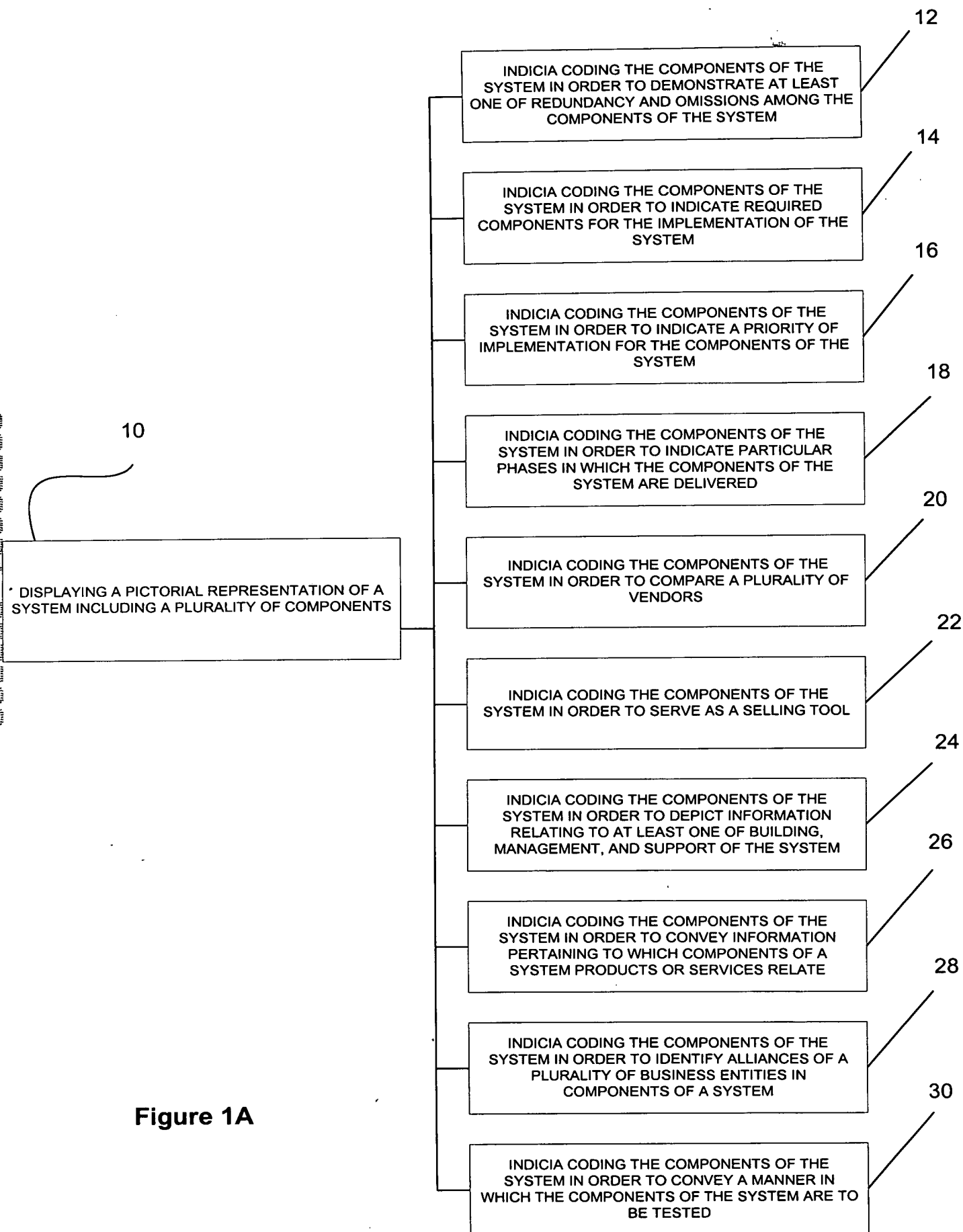


Figure 1A

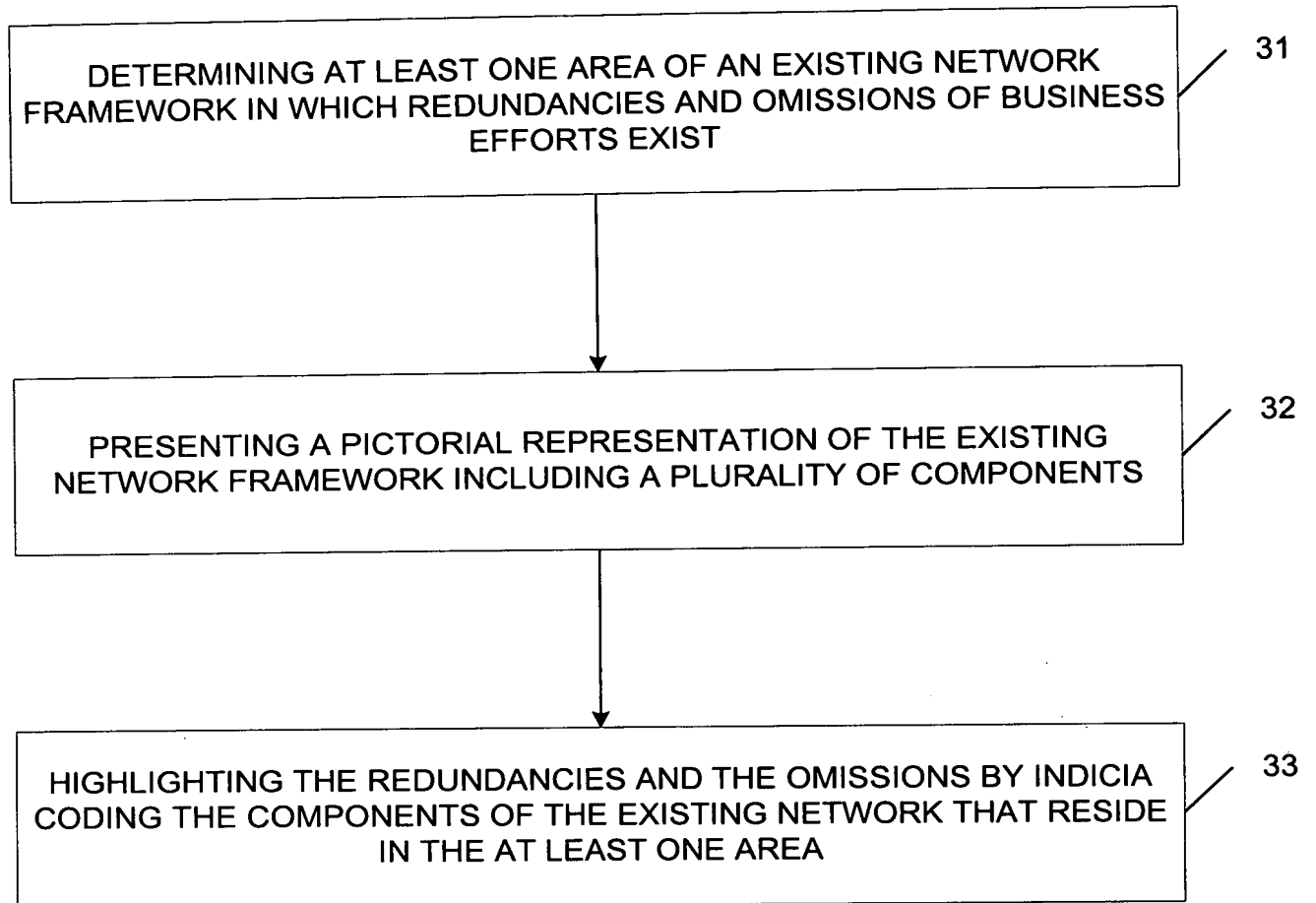


Figure 1B

0930921.052799  
66/250" 12602E60

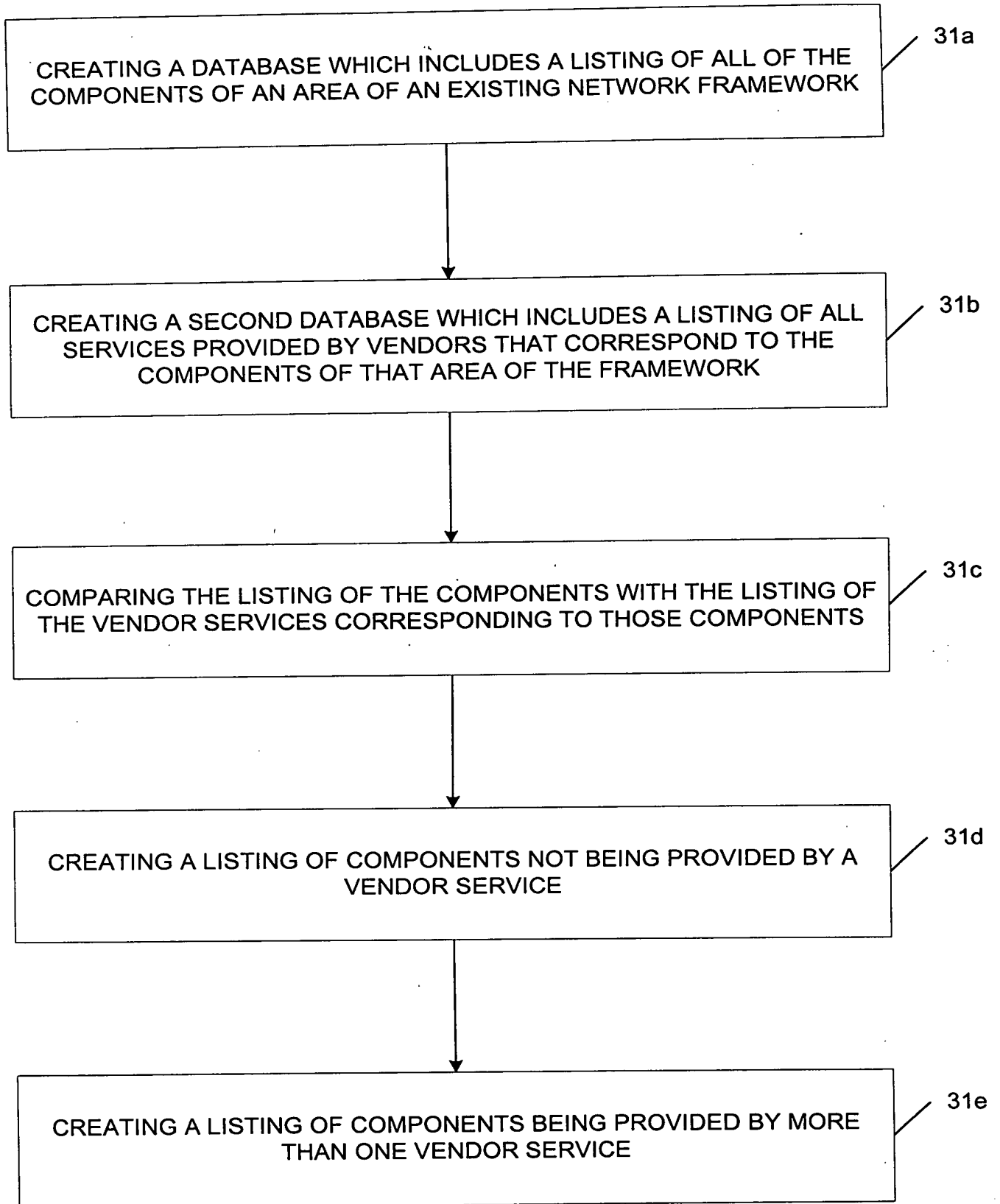
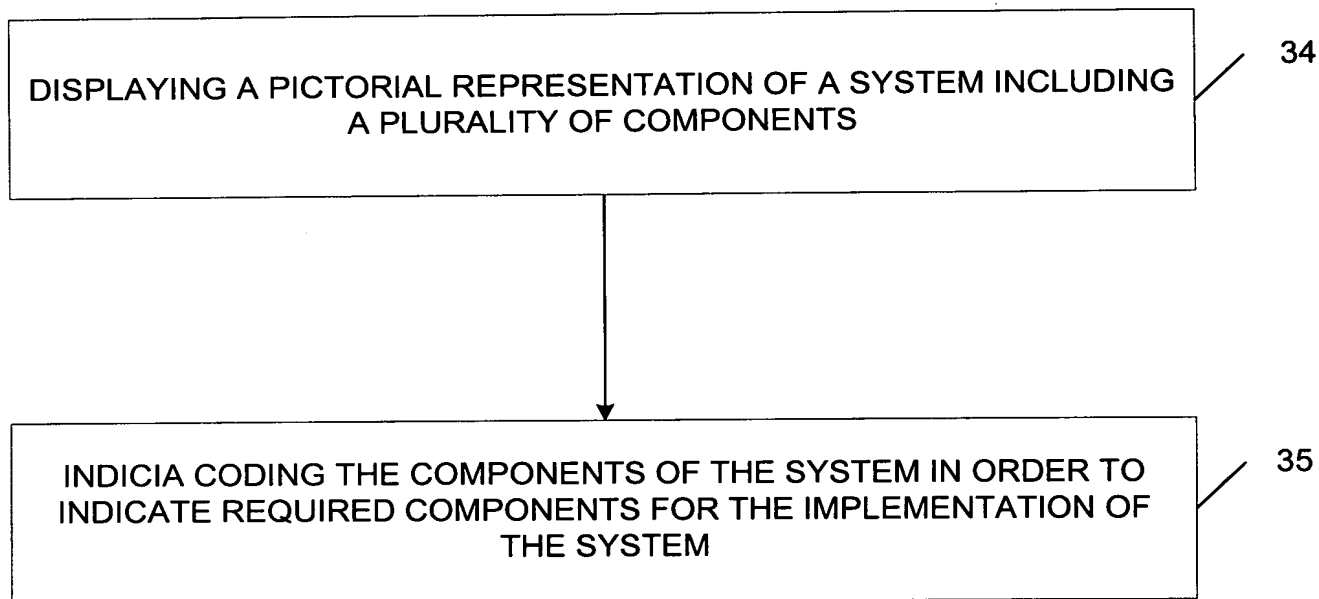


Figure 1B-1



14

Figure 1C

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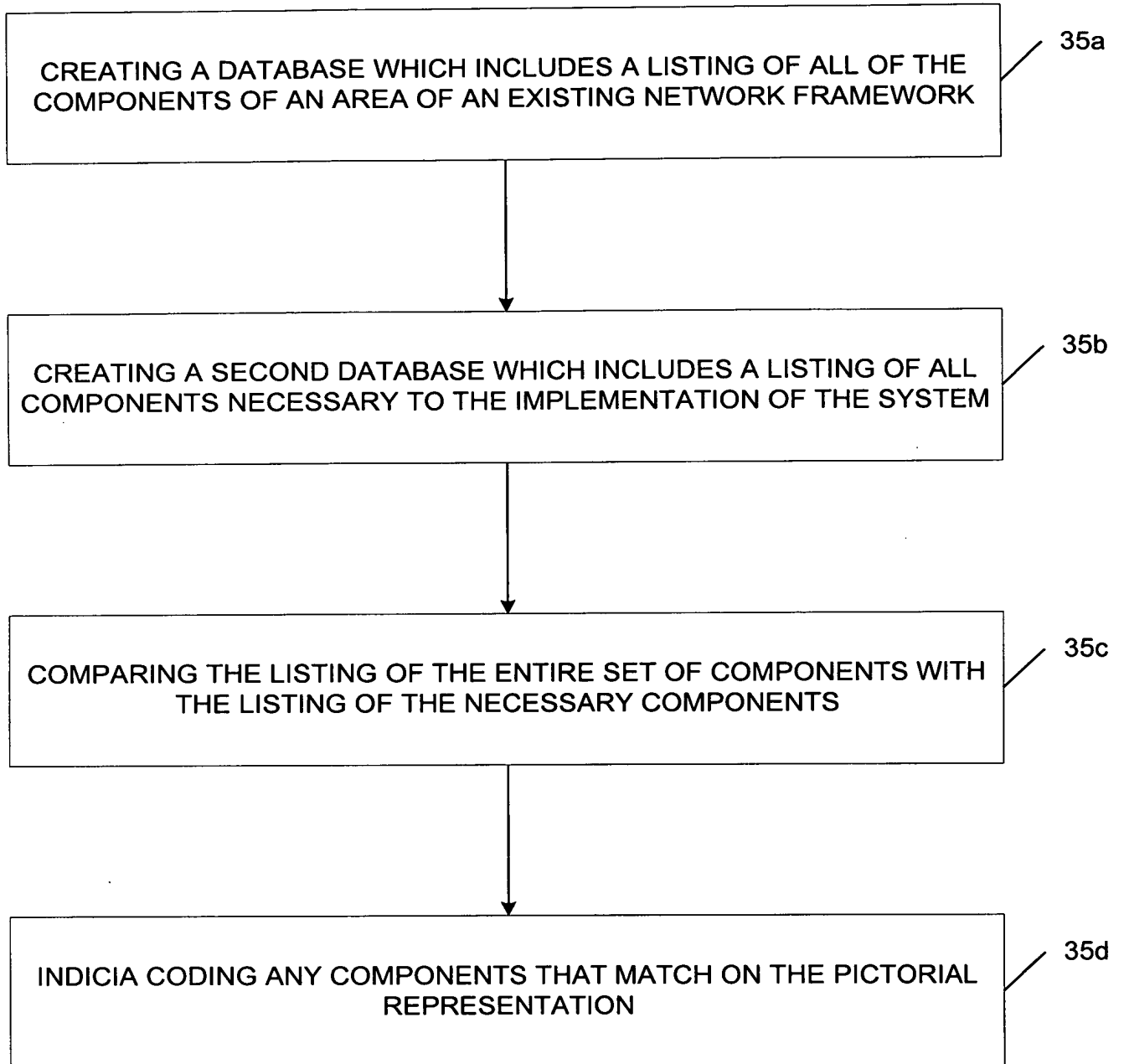
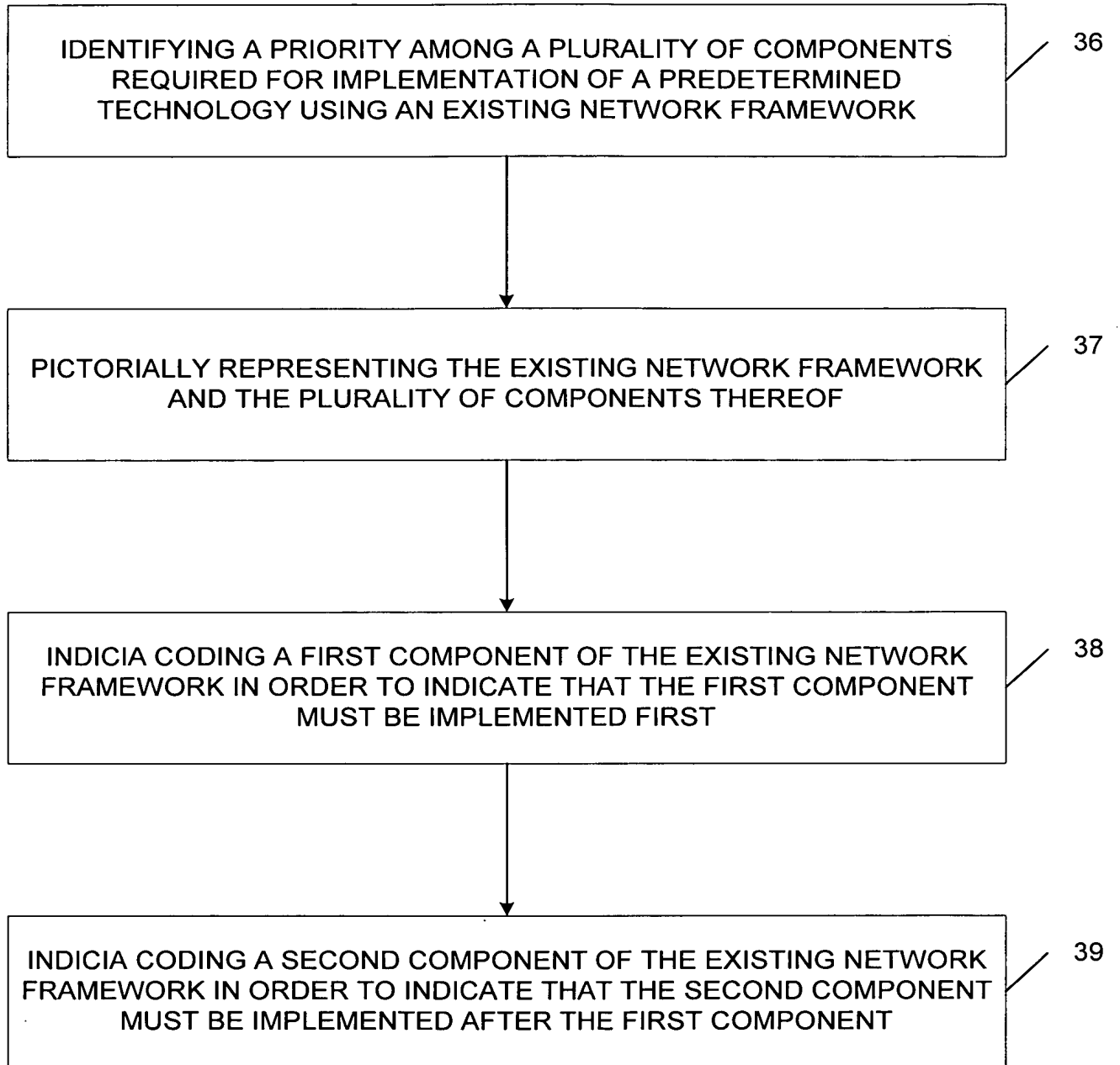


Figure 1C-1



16

Figure 1D

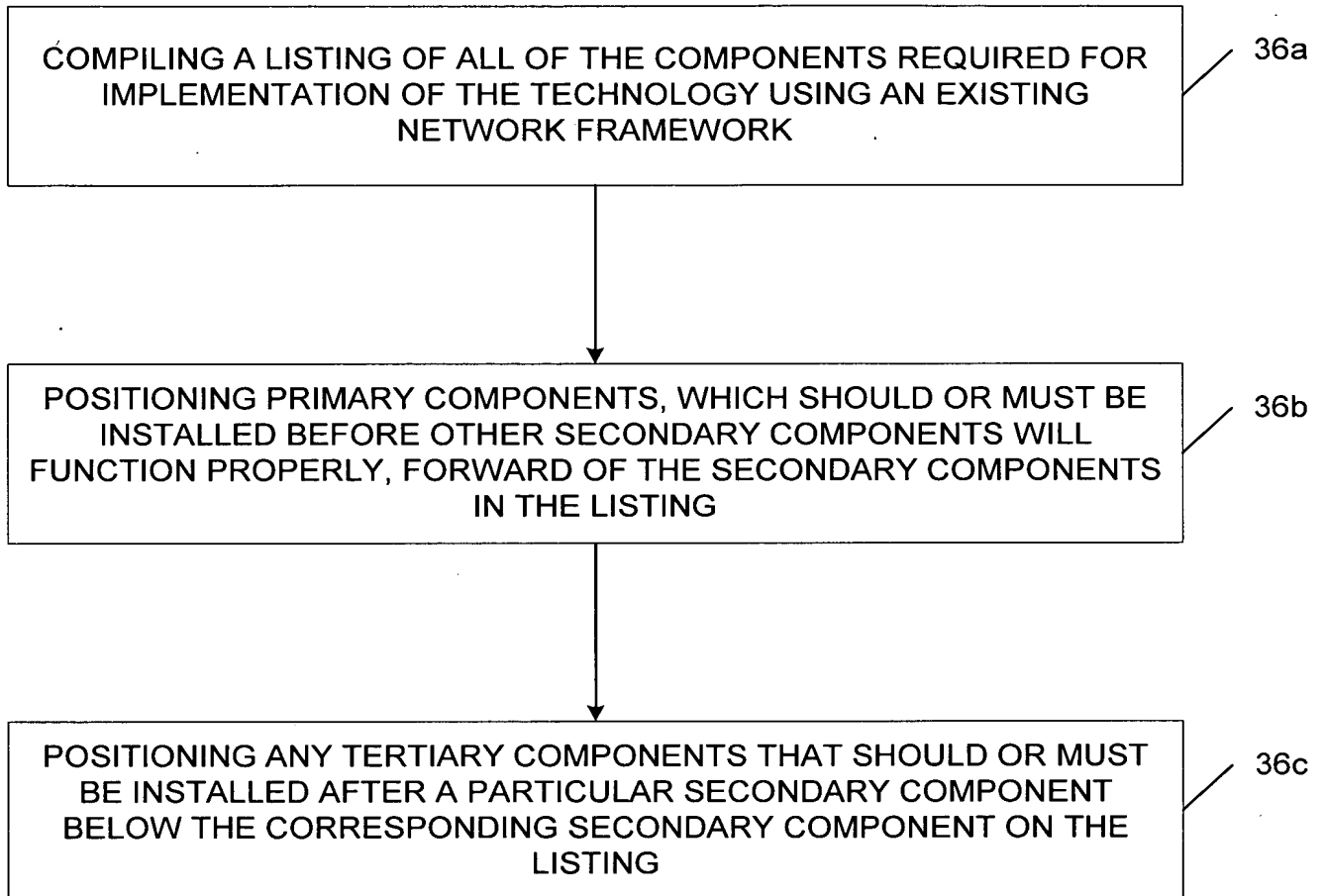


Figure 1D-1

36

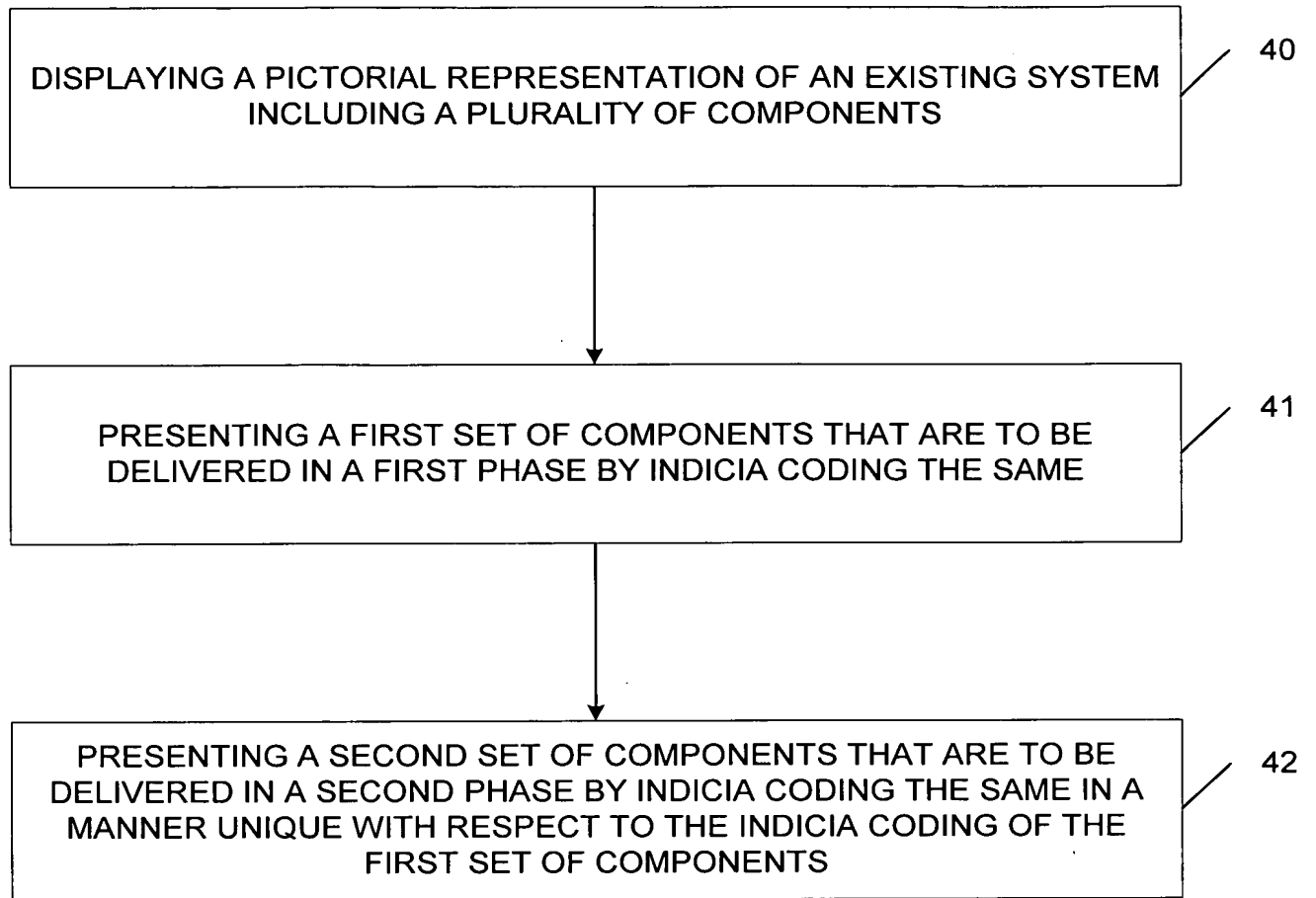
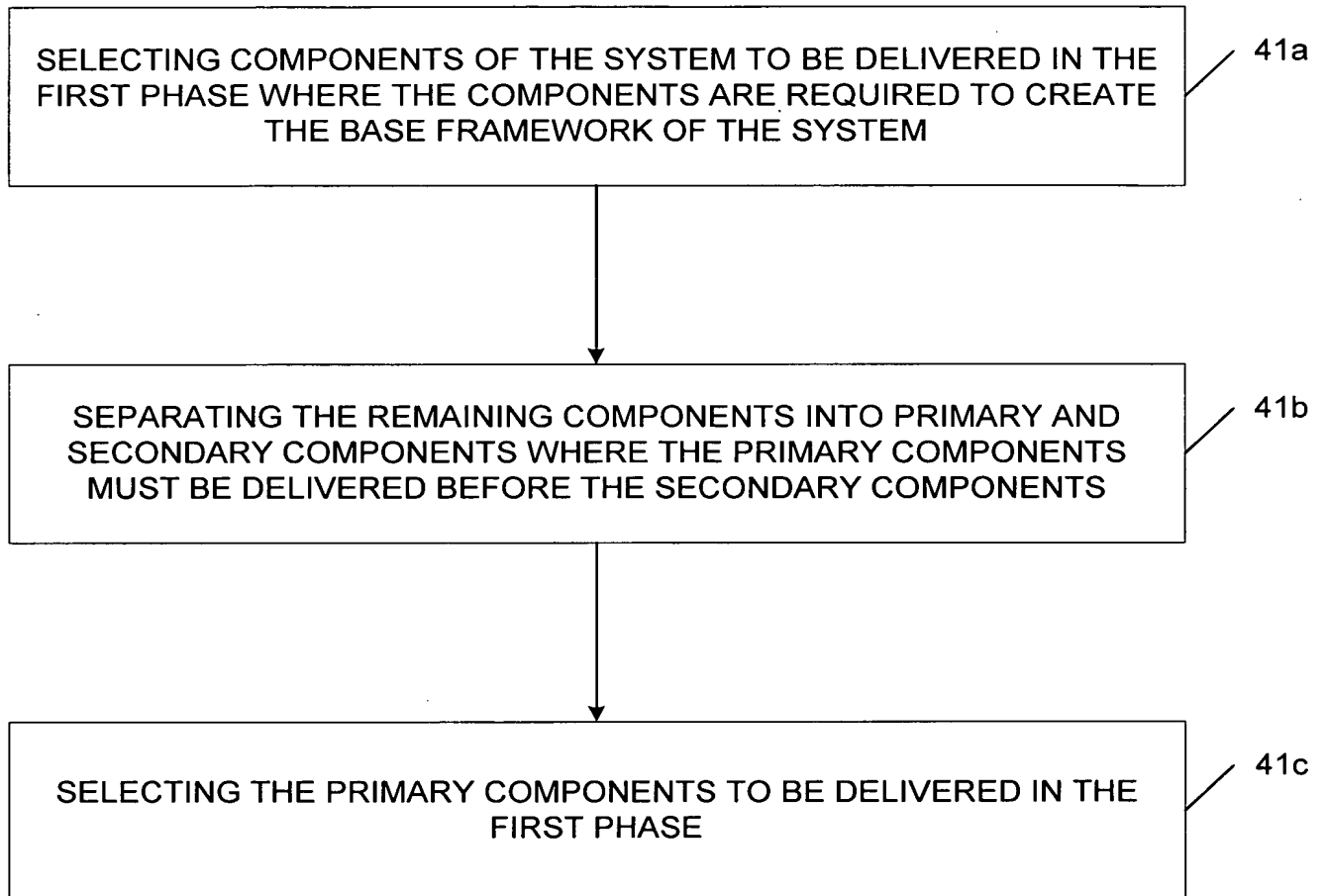
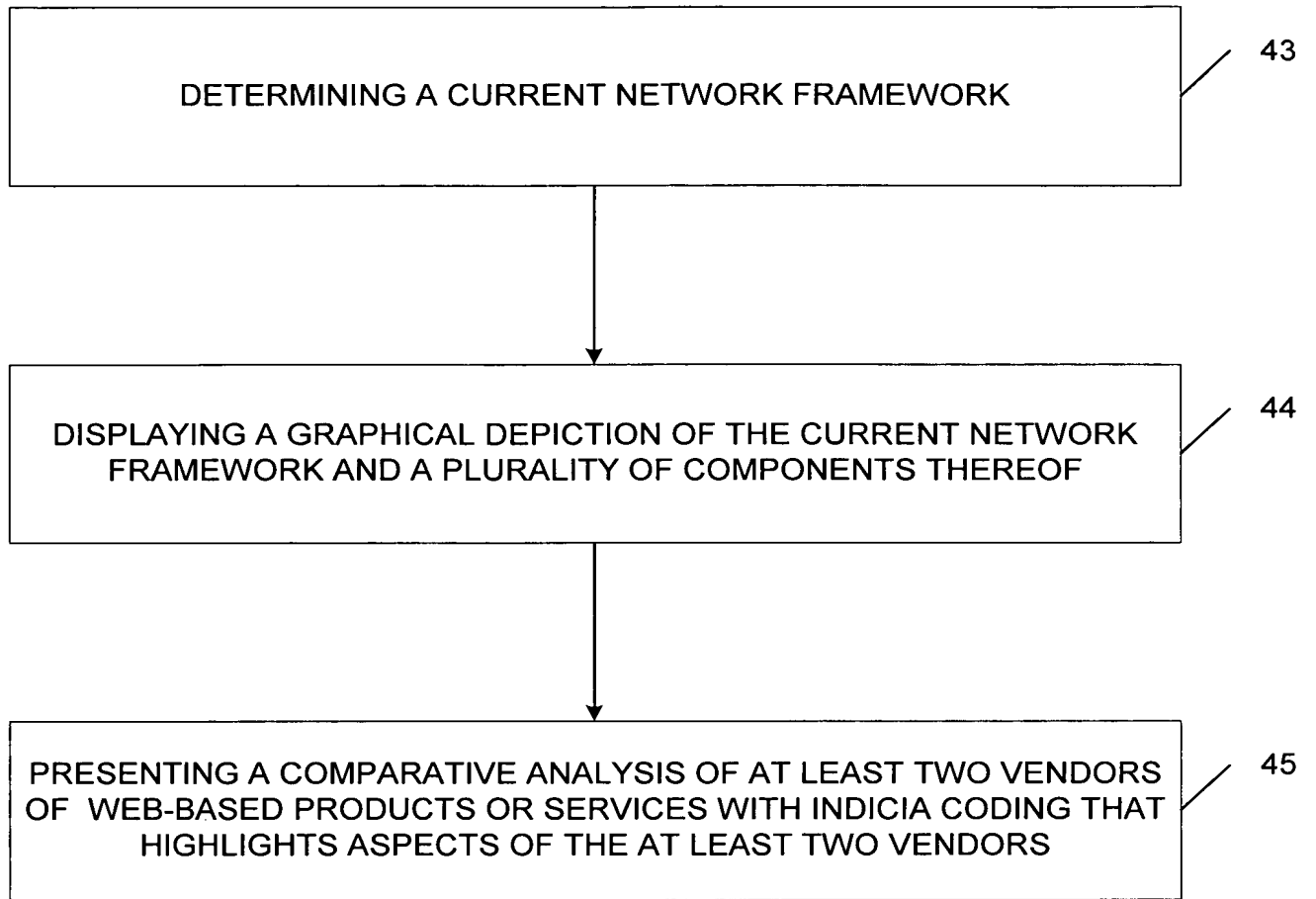


Figure 1E



41

Figure 1E-1



**Figure 1F**

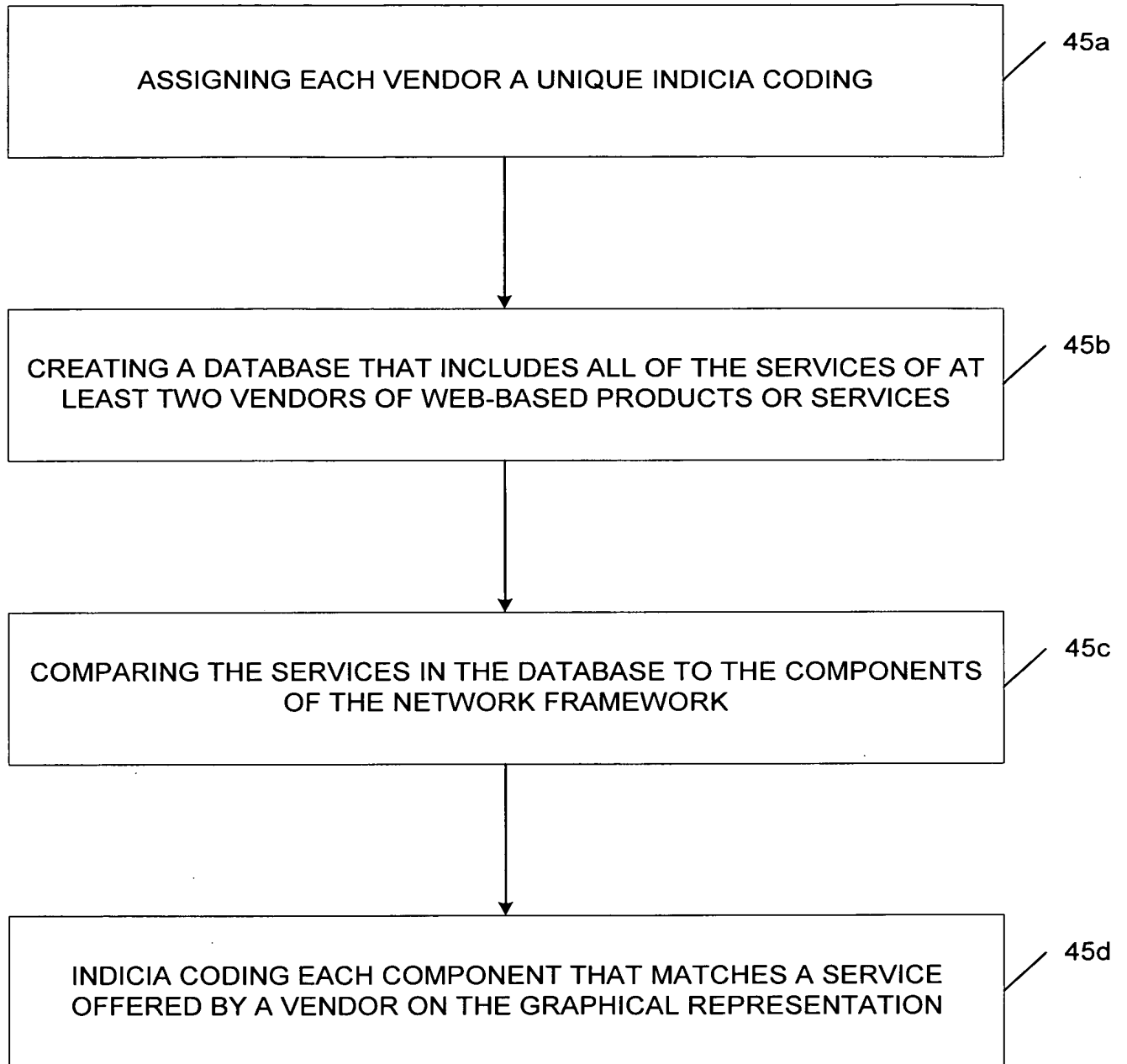
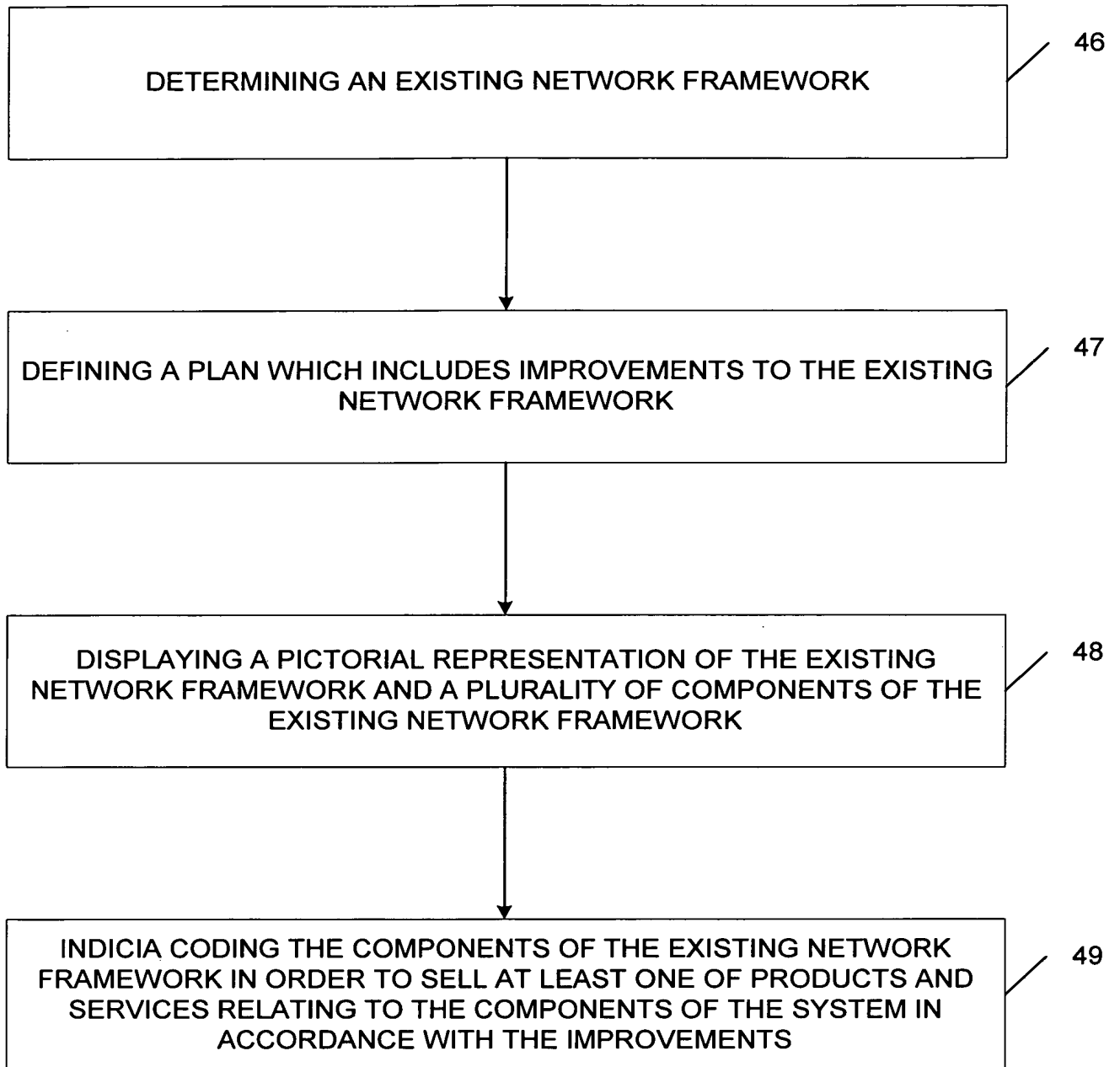
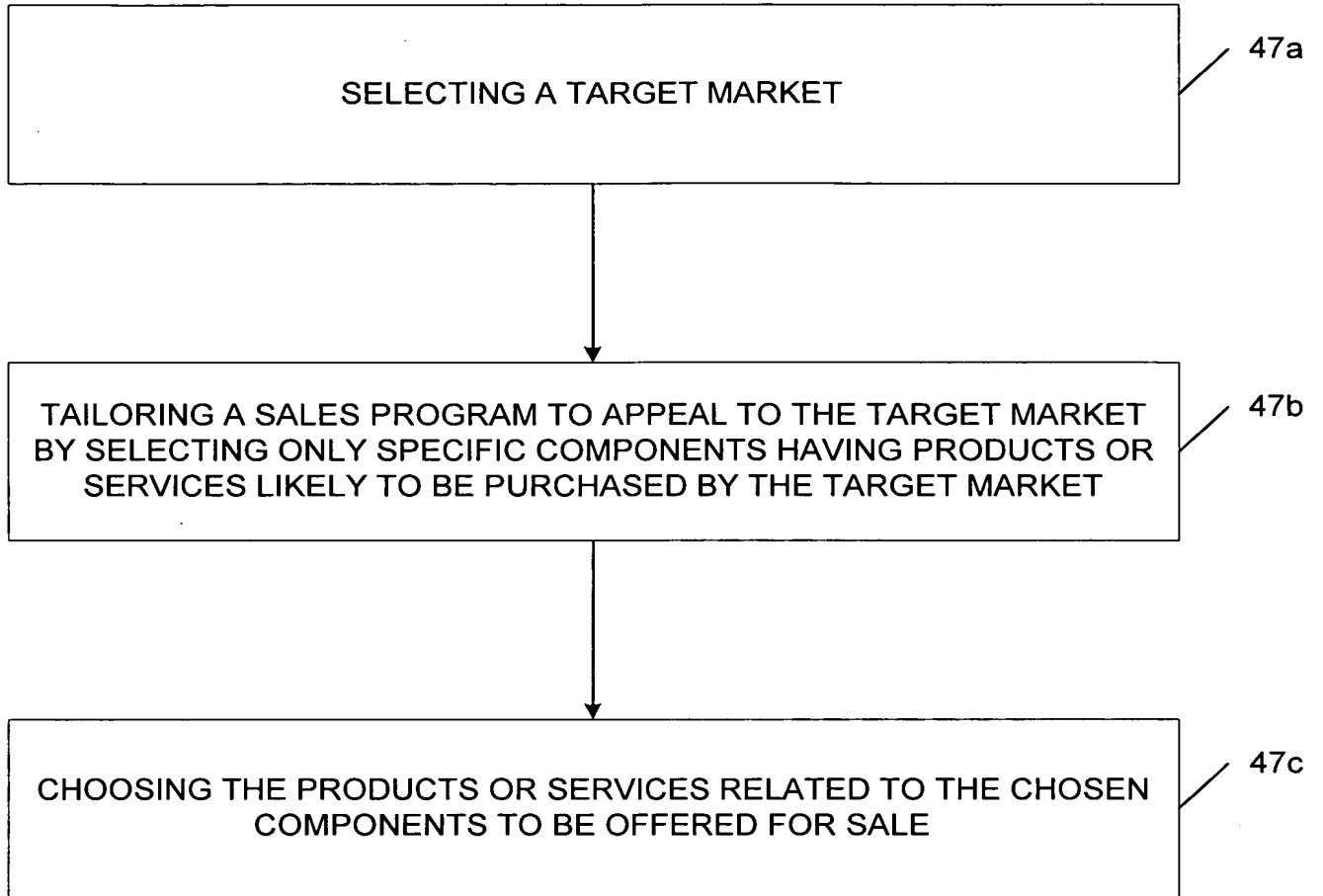


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22

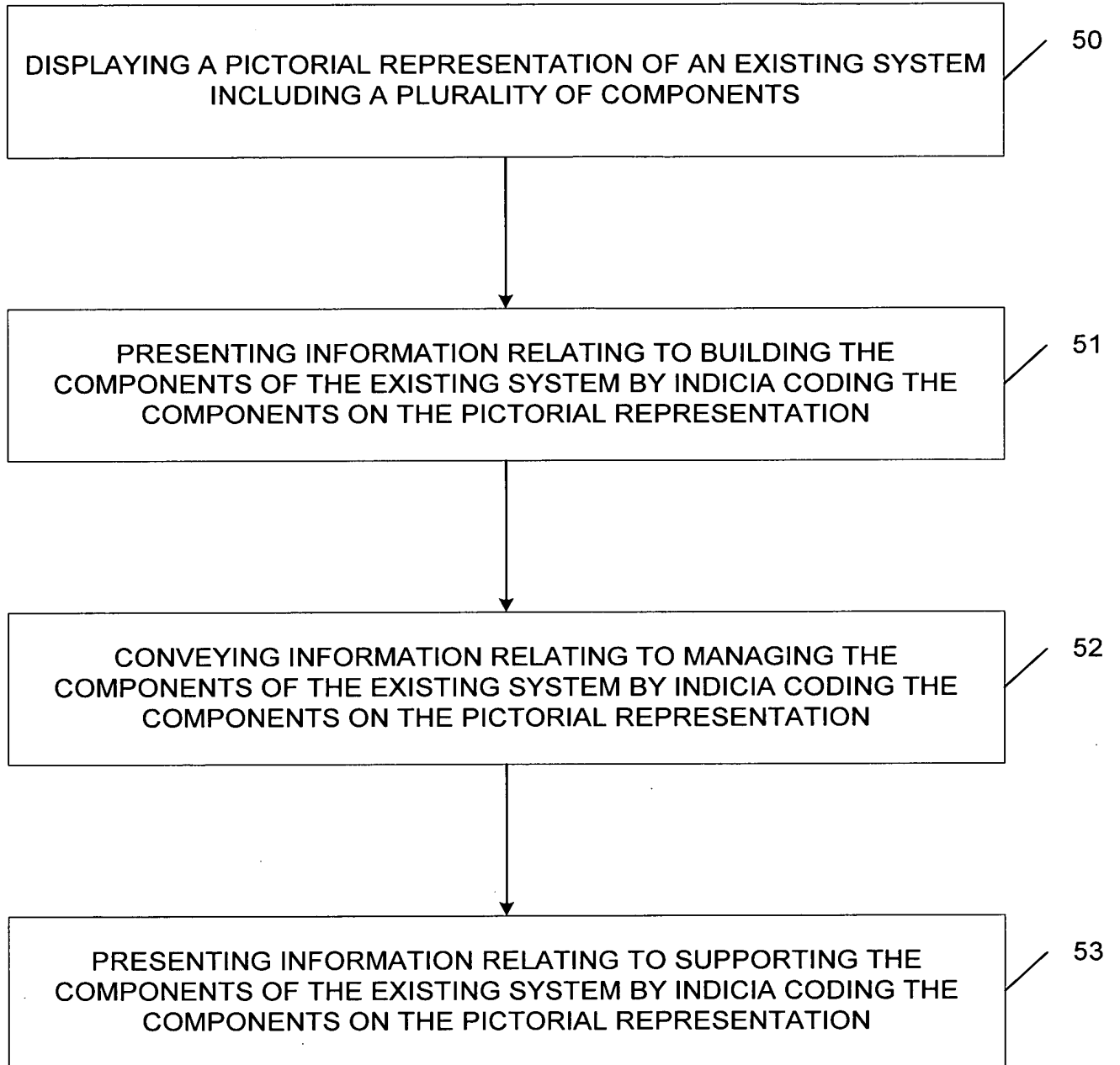
Figur 1G



47

Figure 1G-1

09320921.052799  
662250 T2602E60



24

Figure 1H

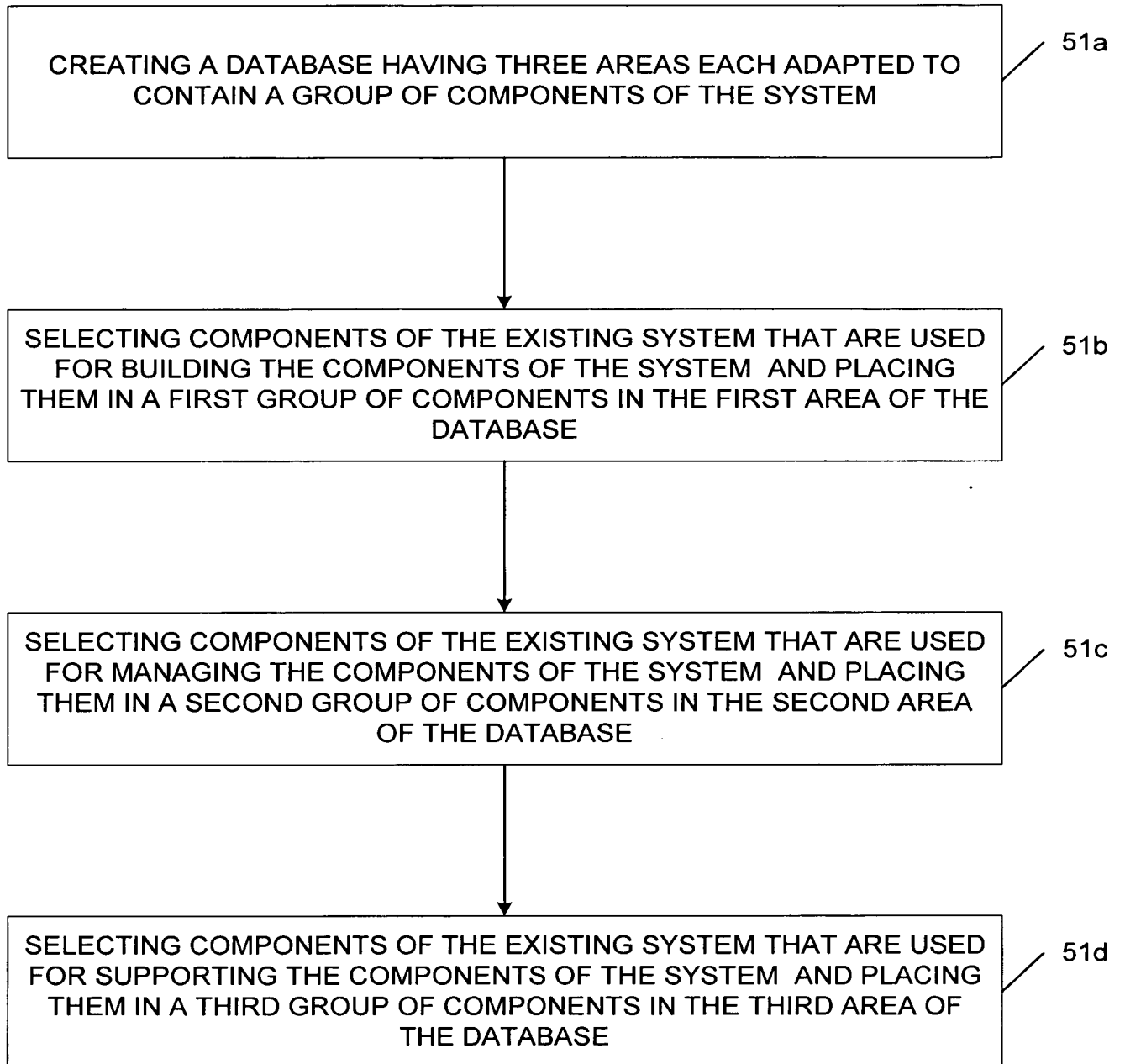


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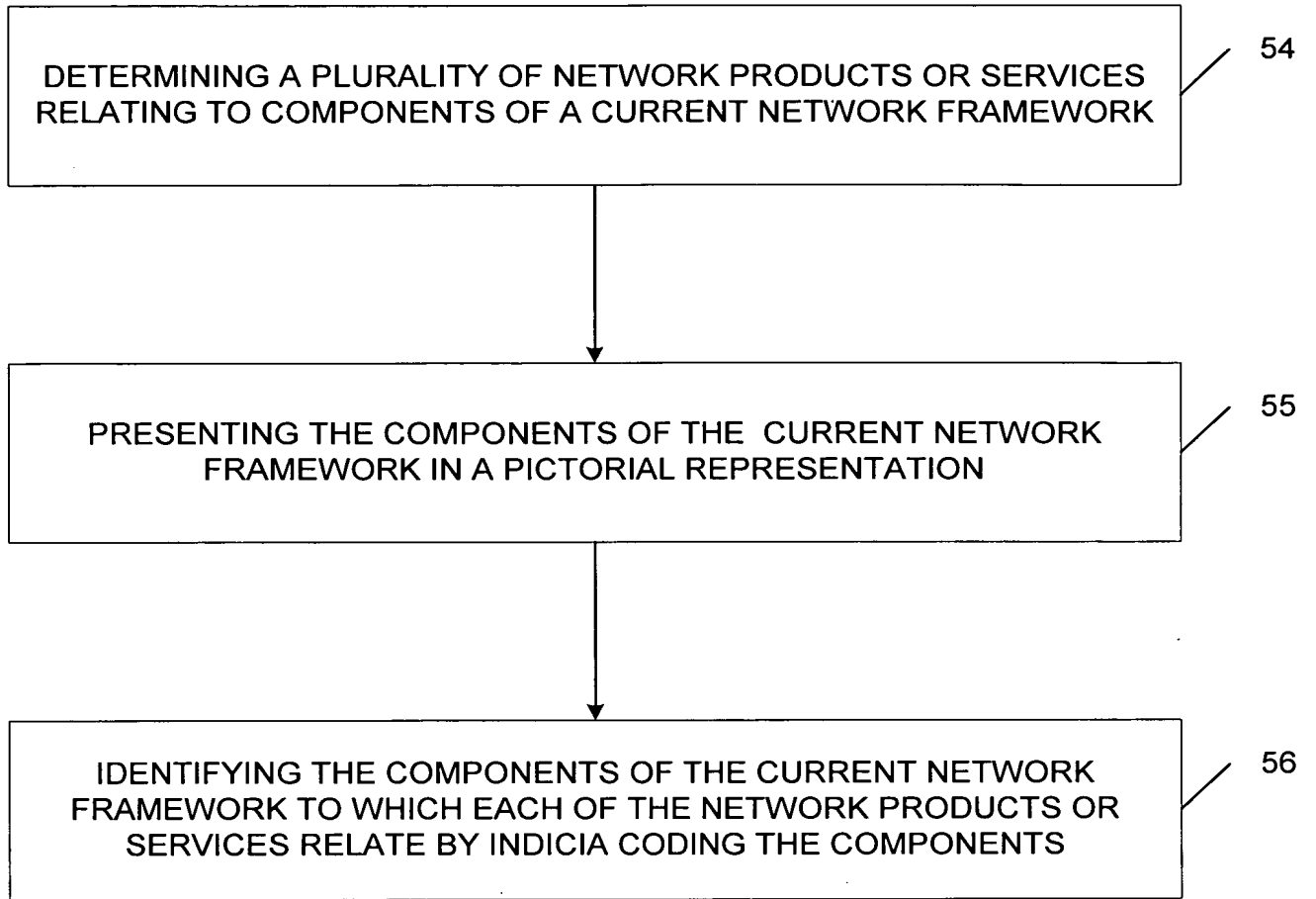
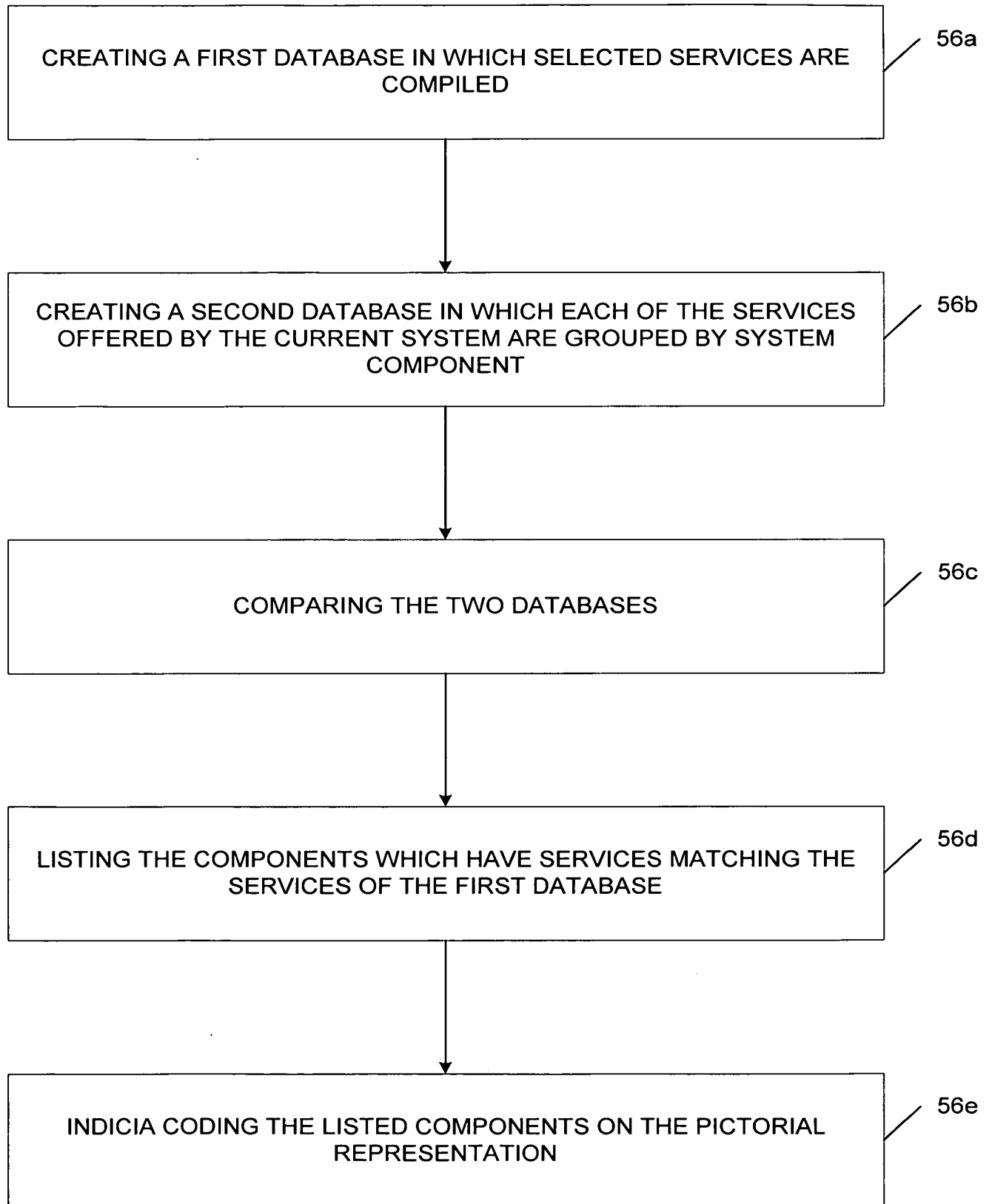


Figure 11

26

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56

Figure 11-1

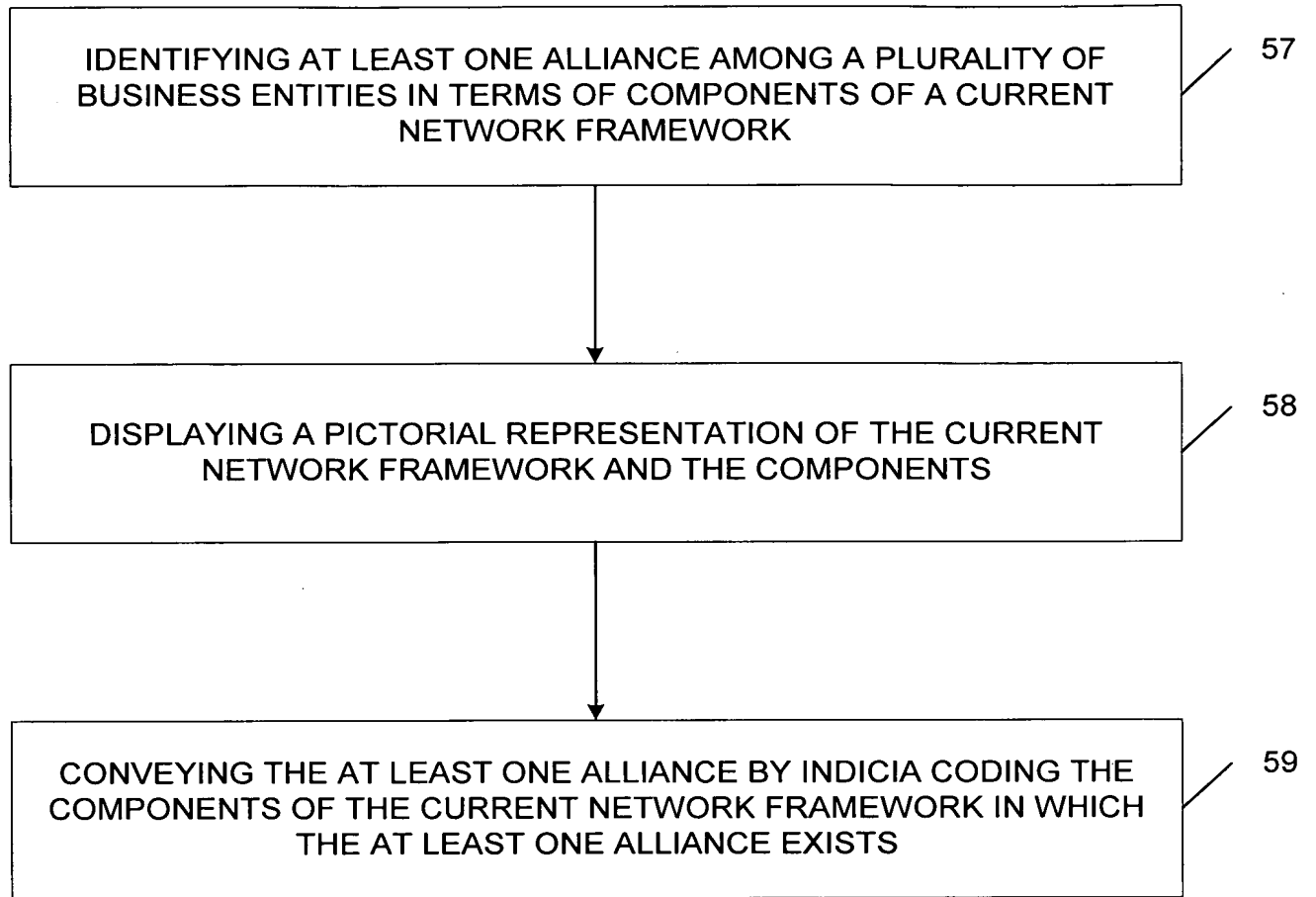
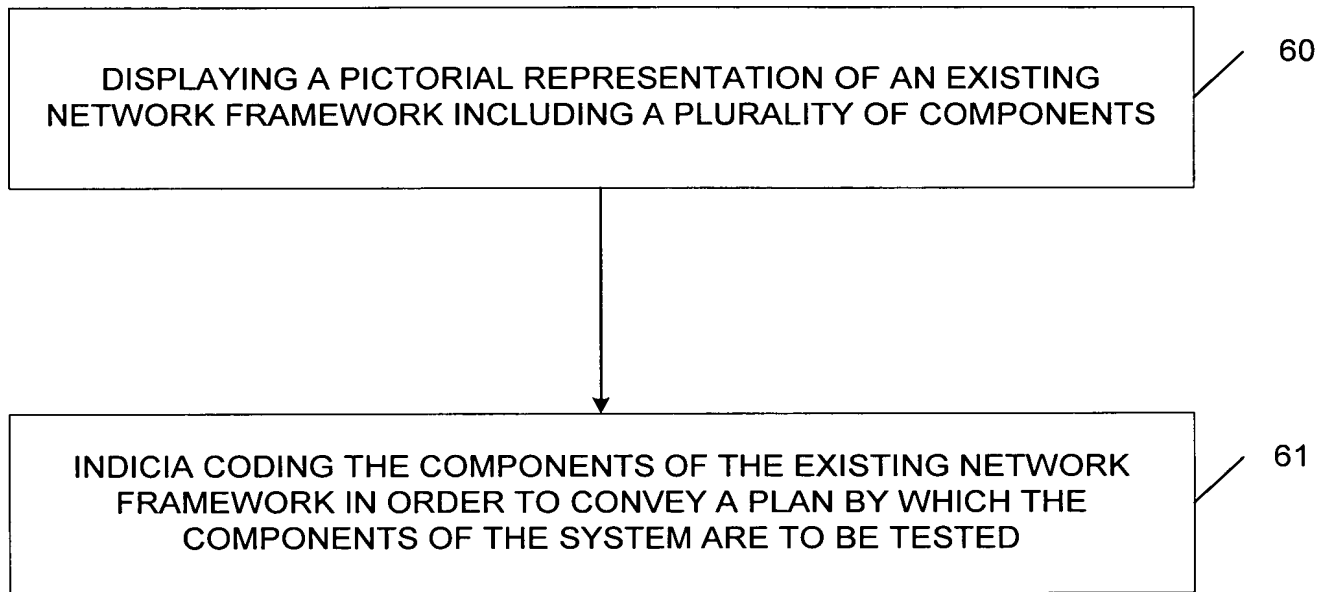
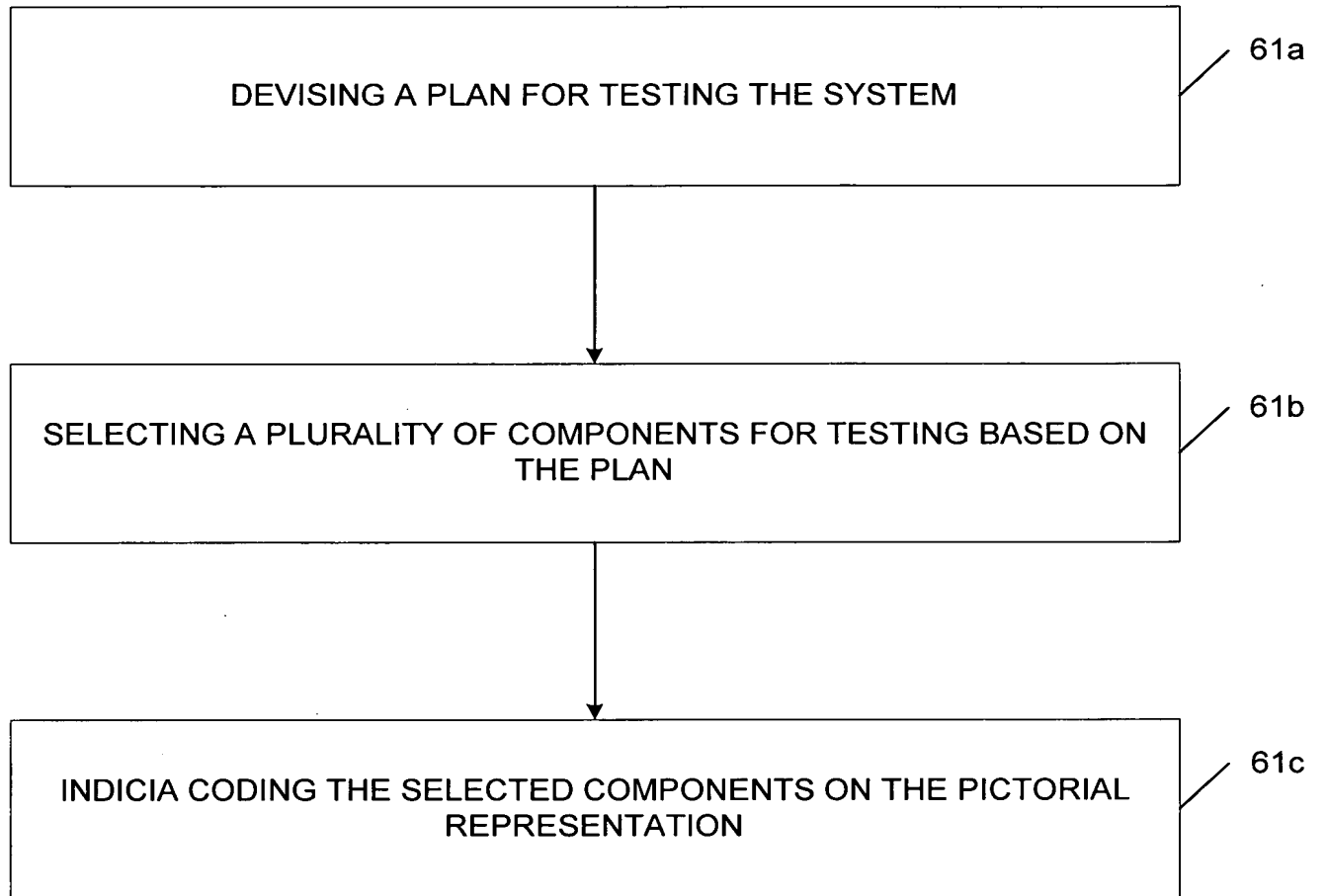


Figure 1J



30

Figure 1K



61

**Figure 1K-1**

# Web Architectur Framework – Base Chart

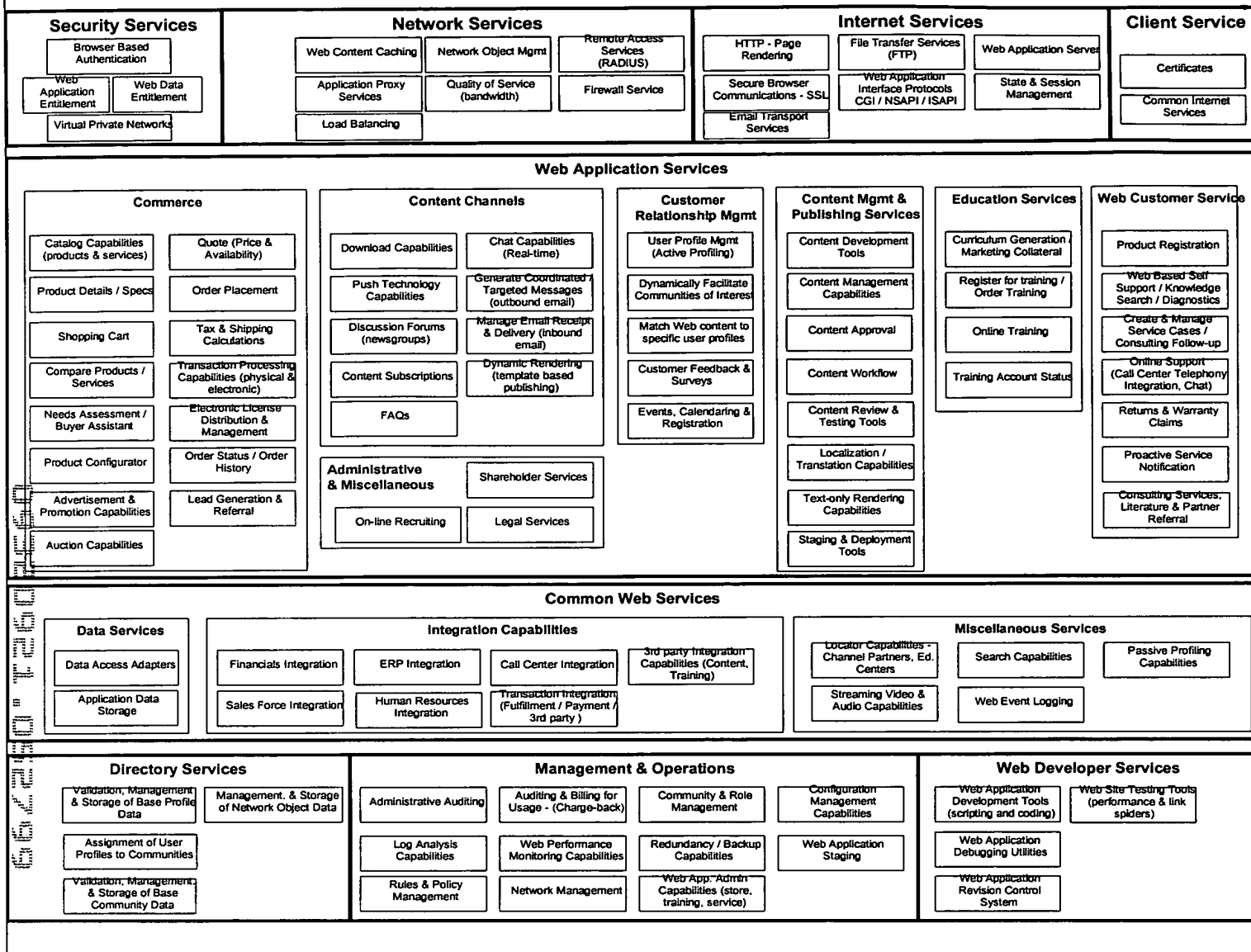


Figure 1L

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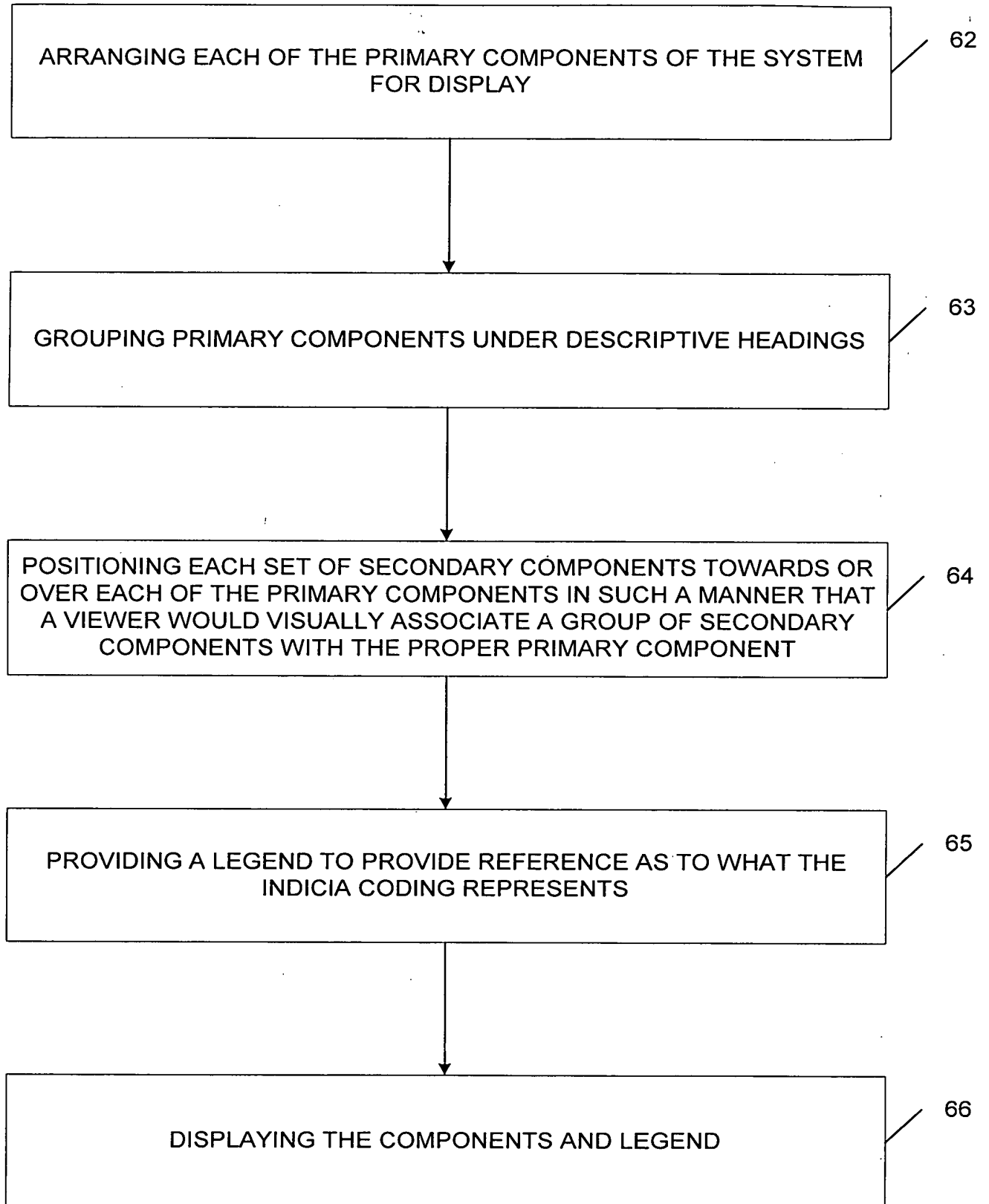


Figure 1L-1

# Web Architecture Framework Today's Environment

Legend

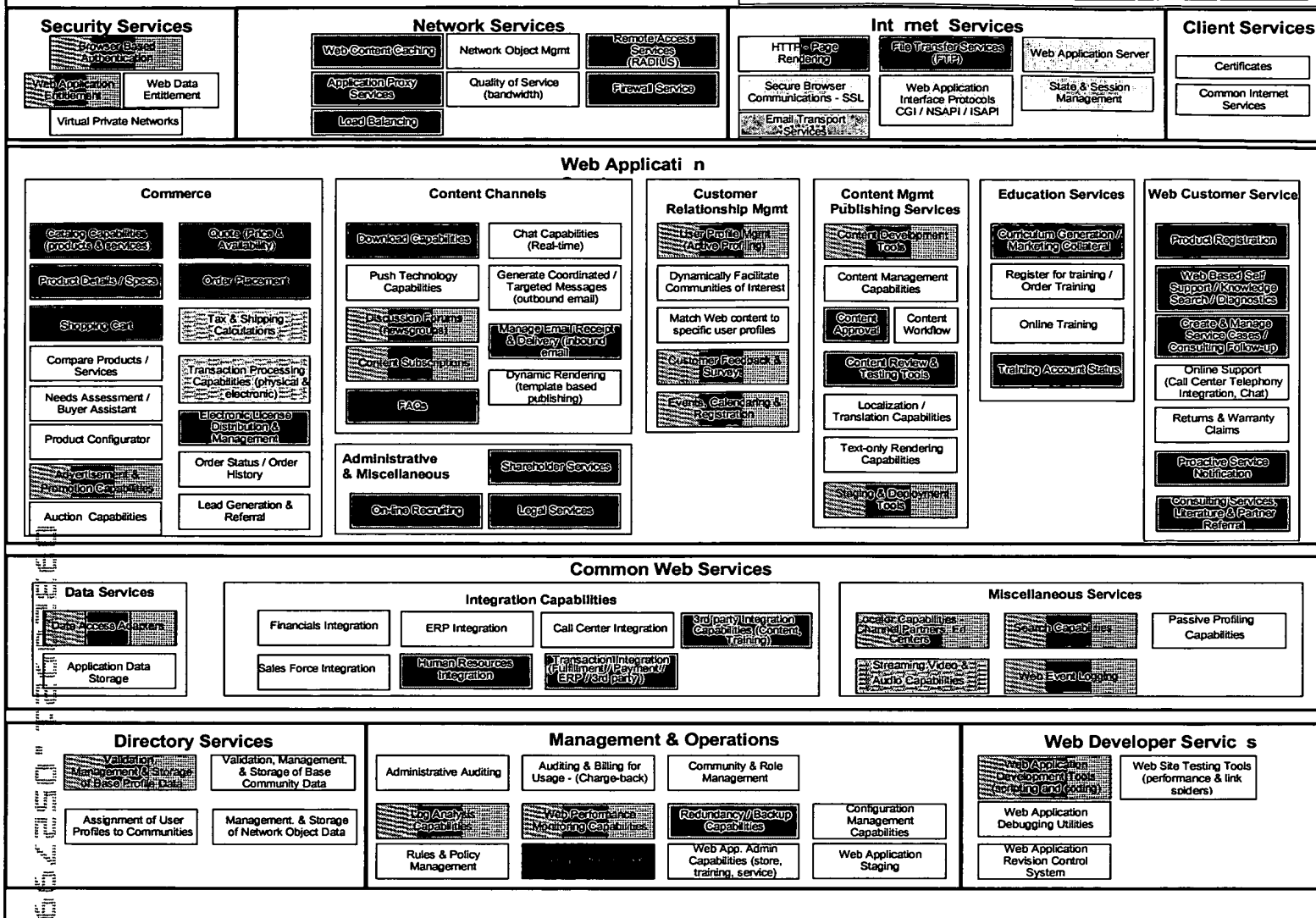


Figure 1M

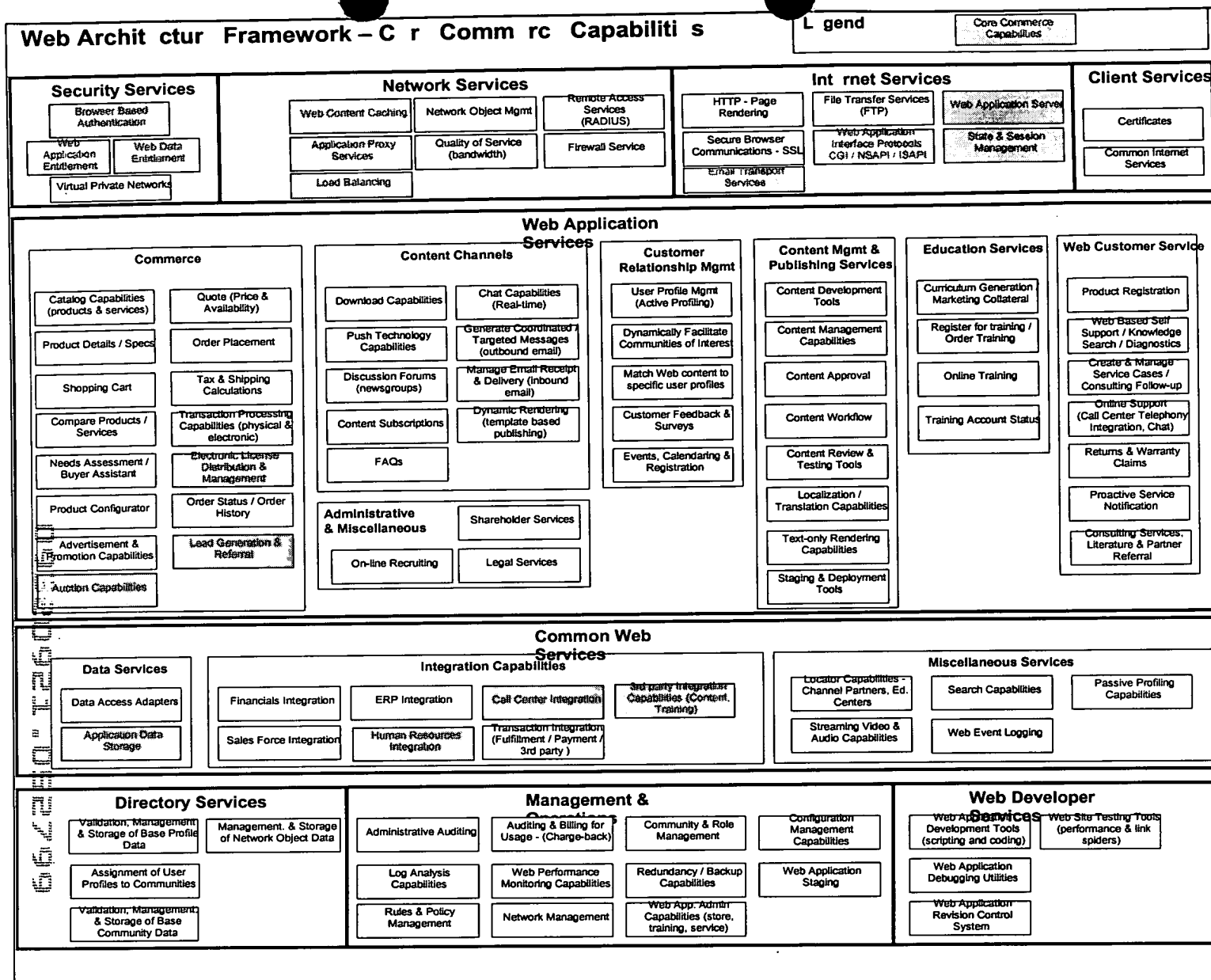


Figure 1N

# Web Architecture Framework – Immediate Activities

## LEGEND

Revenue (basic)	Revenue (enhance)	Content (publishing basic – prep for communities)
Identity (basic)	Identity (security, leads)	Identity (targeting messages)
Tools & Assets (web lab)	Tools & Assets (Search & Ops)	Tools & Assets (enhance profiling)

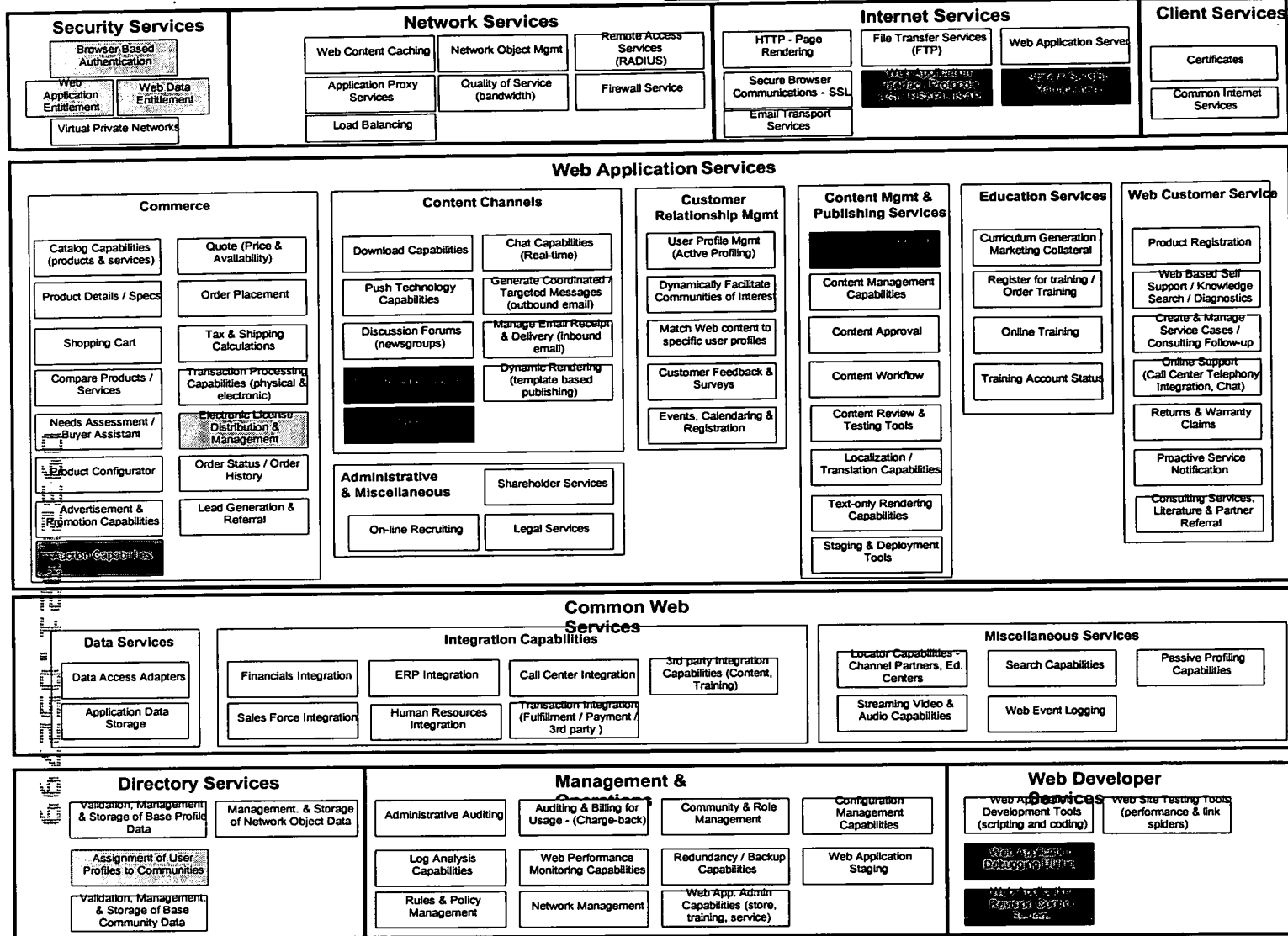


Figure 1P

## Core Commerce Capabilities - Infrastructure Services

Legend: ☐ Available Today

### Core Capabilities

### Existing Capabilities

<b>Browser Based Authentication</b>	<input type="checkbox"/> Verifies user identity using built-in browser functionality <input type="checkbox"/> Maintains authentication information throughout sessions <input type="checkbox"/> Utilizes centralized directory of profiles <input type="checkbox"/> Provides LDAP compatibility <input type="checkbox"/> Provides NDS Compatibility
<b>Web Application Entitlement</b>	<input type="checkbox"/> Restricts access to specific web applications based upon user privileges <input type="checkbox"/> Determines if a user or group of users have permission to perform an operation in a specific application <input type="checkbox"/> Utilizes centralized directory of profiles for entitlement data <input type="checkbox"/> Provides LDAP compatibility <input type="checkbox"/> Provides NDS compatibility
<b>Web Data Entitlement</b>	<input type="checkbox"/> Restricts access to web content and data based upon user privileges <input type="checkbox"/> Determines if a user or group of users have permission to manipulate web data (create, read, update, delete) <input type="checkbox"/> Utilizes centralized directory of profiles for entitlement data <input type="checkbox"/> Provides LDAP compatibility <input type="checkbox"/> Provides NDS compatibility
<b>Web Content Caching</b>	<input type="checkbox"/> Stores frequently requested web pages and graphics in a temporary location <input type="checkbox"/> Serves up previously cached content without accessing original source <input type="checkbox"/> Updates cache automatically to ensure integrity of content
<b>Application Reverse Proxy Services</b>	<input type="checkbox"/> Passes requests from external clients to internal web servers and return results <input type="checkbox"/> Serves as trusted agent to access internal machines on the behalf of clients <input type="checkbox"/> Hides IP Addresses of machines inside a firewall from external clients <input type="checkbox"/> Provides configuration control over external access permissions
<b>Load Balancing</b>	<input type="checkbox"/> Spreads tasks among application servers using an intelligent load-balance scheme (CPU utilization) <input type="checkbox"/> Provides a centralized task distribution mechanism for routing services <input type="checkbox"/> Identifies servers that are off-line and re-route traffic
<b>Firewall Service</b>	<input type="checkbox"/> Protects resources on a private network from users of other networks <input type="checkbox"/> Filters network traffic based on security rules <input type="checkbox"/> Provides alarm notification of attacks <input type="checkbox"/> Provides logging and reporting functions <input type="checkbox"/> Provides port and traffic control
<b>HTTP - Page Rendering</b>	<input type="checkbox"/> Serves requested web pages and graphics from web servers to client web browsers <input type="checkbox"/> Supports page rendering for multiple languages <input type="checkbox"/> Supports multiple content sources (file system, databases, scripts)

### Core Capabilities

### Existing Capabilities

<b>Secure Browser Communication - SSL</b>	<input type="checkbox"/> Provides encrypted communication with common web browsers <input type="checkbox"/> Supports the Secure Sockets Layer protocol 2.0 <input type="checkbox"/> Supports the Secure Sockets Layer protocol 3.0
<b>File Transfer Services (FTP)</b>	<input type="checkbox"/> Transfers files between computers on the Internet using the standard File Transfer Protocol (FTP) <input type="checkbox"/> Stores files on a file system or database <input type="checkbox"/> Provides mechanism to manage access control for files on a FTP server
<b>Web Application Interface Protocols - CGI, NSAPI, ISAPI</b>	<input type="checkbox"/> Supports Common Gateway Interface (CGI) protocol <input type="checkbox"/> Supports Netscape' API (NSAPI) protocol <input type="checkbox"/> Supports Microsoft's API (ISAPI) protocol <input type="checkbox"/> Provides alternative to the interface mechanism that may be used
<b>Web Application Server Plug-in</b>	<input type="checkbox"/> Executes web application logic <input type="checkbox"/> Utilizes user session information to support interactive applications <input type="checkbox"/> Provides scalability features <input type="checkbox"/> Provides fail-over features <input type="checkbox"/> Provides application programming logic
<b>State and Session Management</b>	<input type="checkbox"/> Provides mechanism to note and remember one or more preceding events in a given sequence of interactions with the user or application <input type="checkbox"/> Tracks state and session information <input type="checkbox"/> Manages multiple independent sessions simultaneously active <input type="checkbox"/> Supports Client Cookies <input type="checkbox"/> Supports Client URL Encoding <input type="checkbox"/> Supports Server Information with Client Cookies <input type="checkbox"/> Supports Server Information with URL Session Identifiers
<b>Oracle Financials Integration</b>	<input type="checkbox"/> Provides adapter or mechanism to communicate and transfer data at the functional level with Oracle Financials via API's <input type="checkbox"/> Supports Oracle's API sets for external integration <input type="checkbox"/> Supports Data Access Adapter capabilities
<b>SIEBEL Integration</b>	<input type="checkbox"/> Provides adapter or mechanism to communicate and transfer data at the functional level with Siebel via API's <input type="checkbox"/> Supports Siebel's API sets for external integration <input type="checkbox"/> Supports Data Access Adapter capabilities
<b>Transaction Integration (Fulfillment/Payment/Shipping)</b>	<input type="checkbox"/> Provides adapter or mechanism to transfer transactional information to a fulfillment house, payment processing center, enterprise resource planning system or other third party <input type="checkbox"/> Provides reporting and logging functions to detect communication errors
<b>3rd Party Integration Capabilities (Content, Training)</b>	<input type="checkbox"/> Provides adapter or mechanism to communicate with external system that provide additional content such as catalog information <input type="checkbox"/> Provides reporting and logging functions to detect communication errors

Figure 1Q

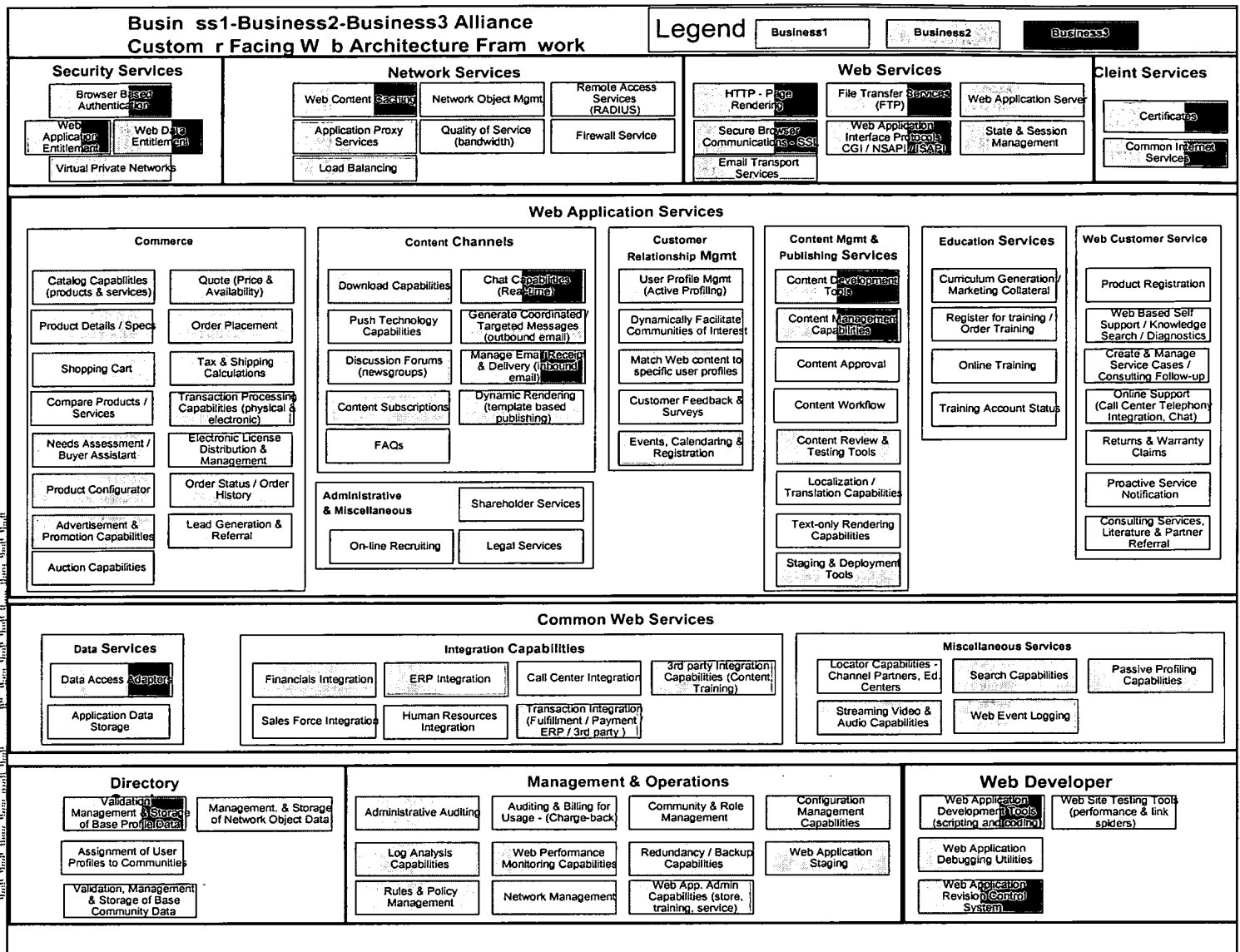


Figure 1R

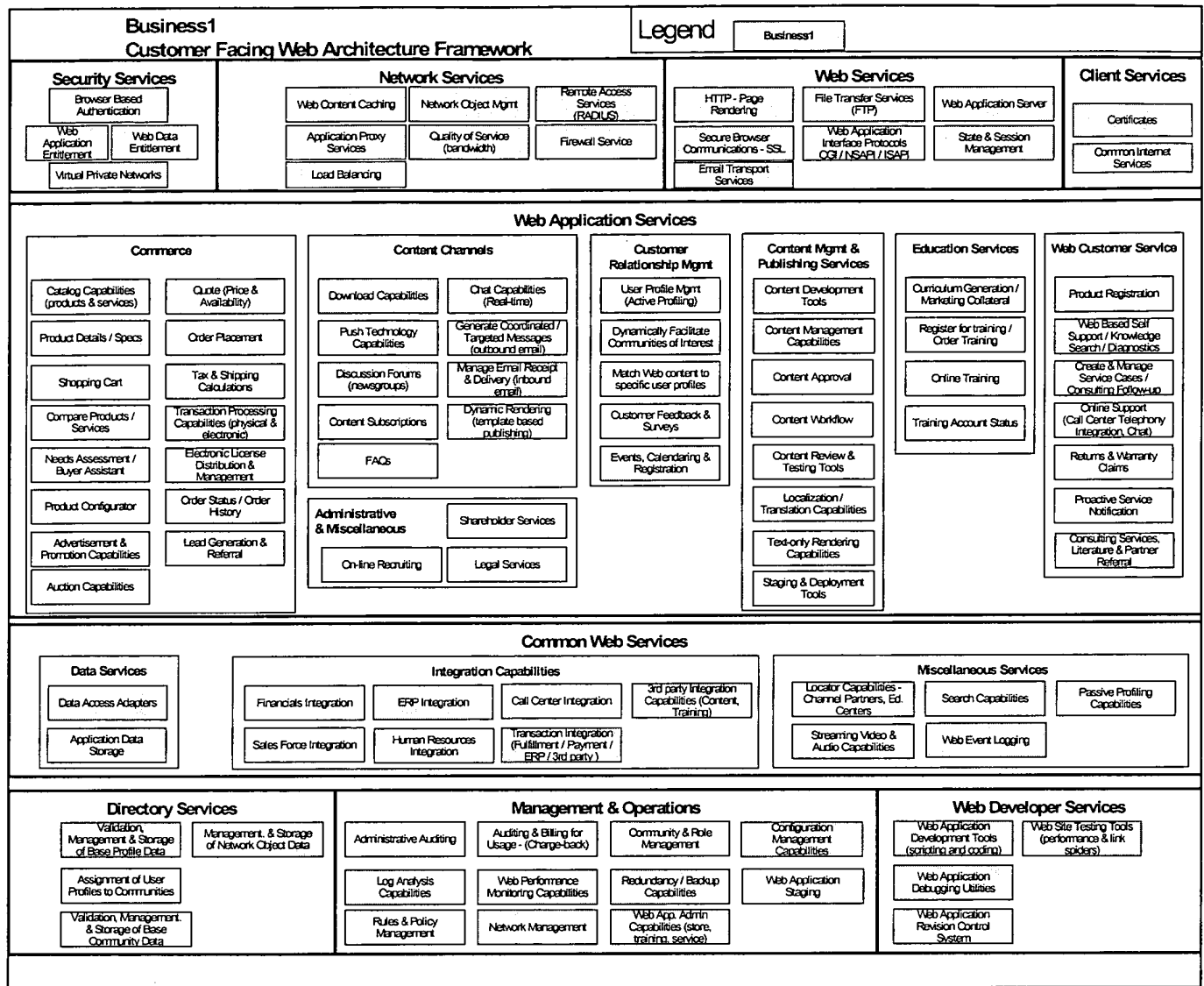


Figure 1S

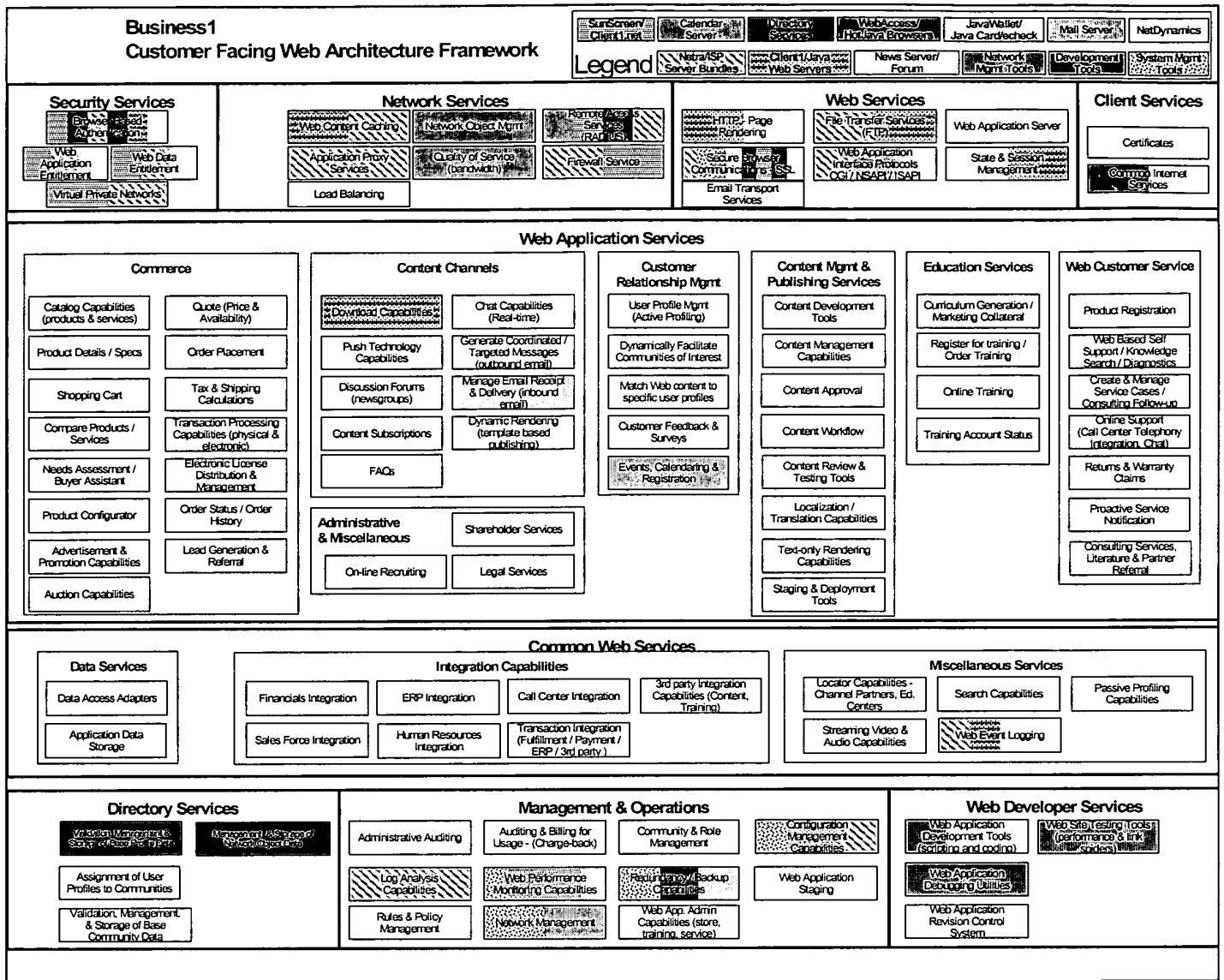


Figure 1T

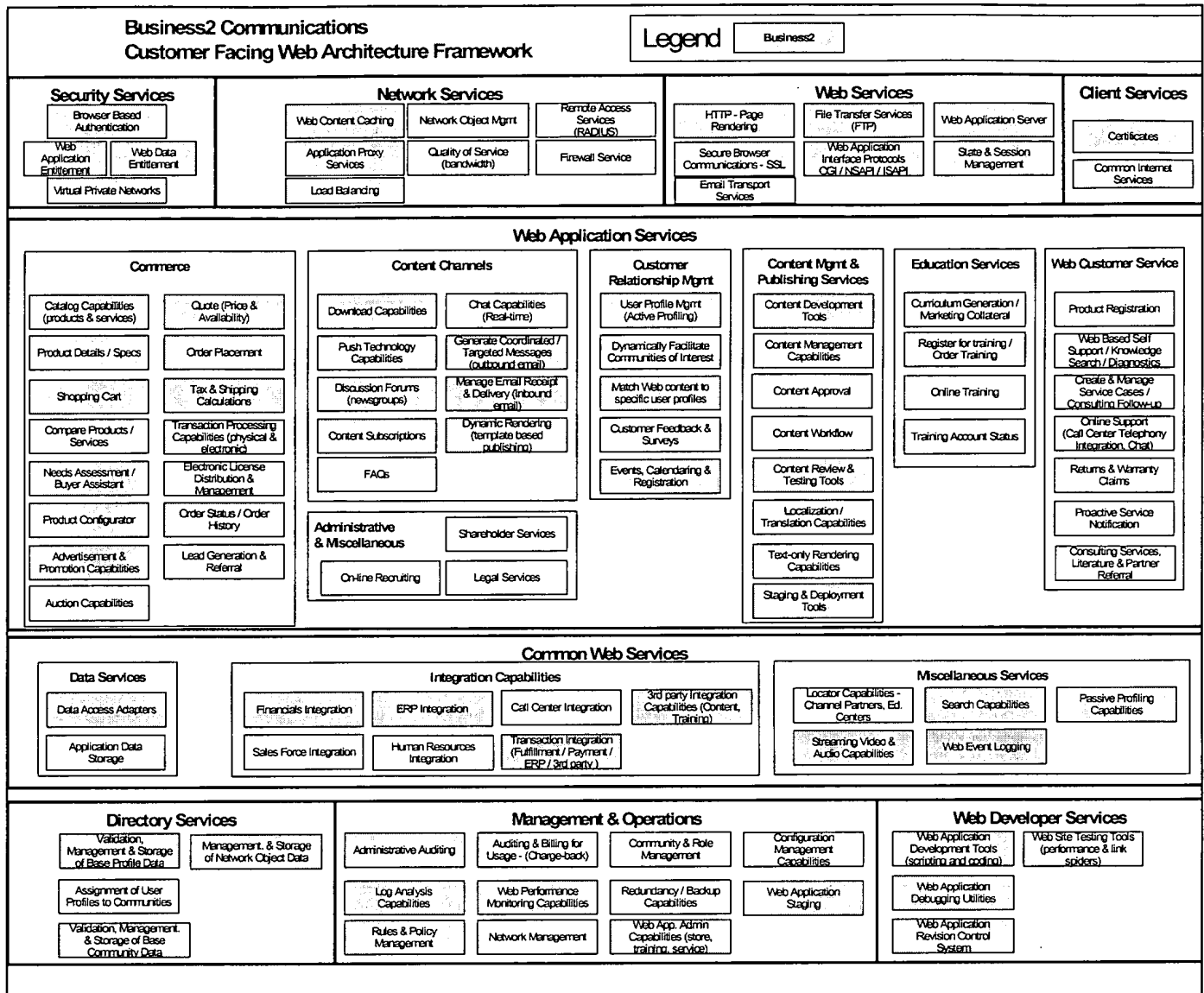


Figure 1U

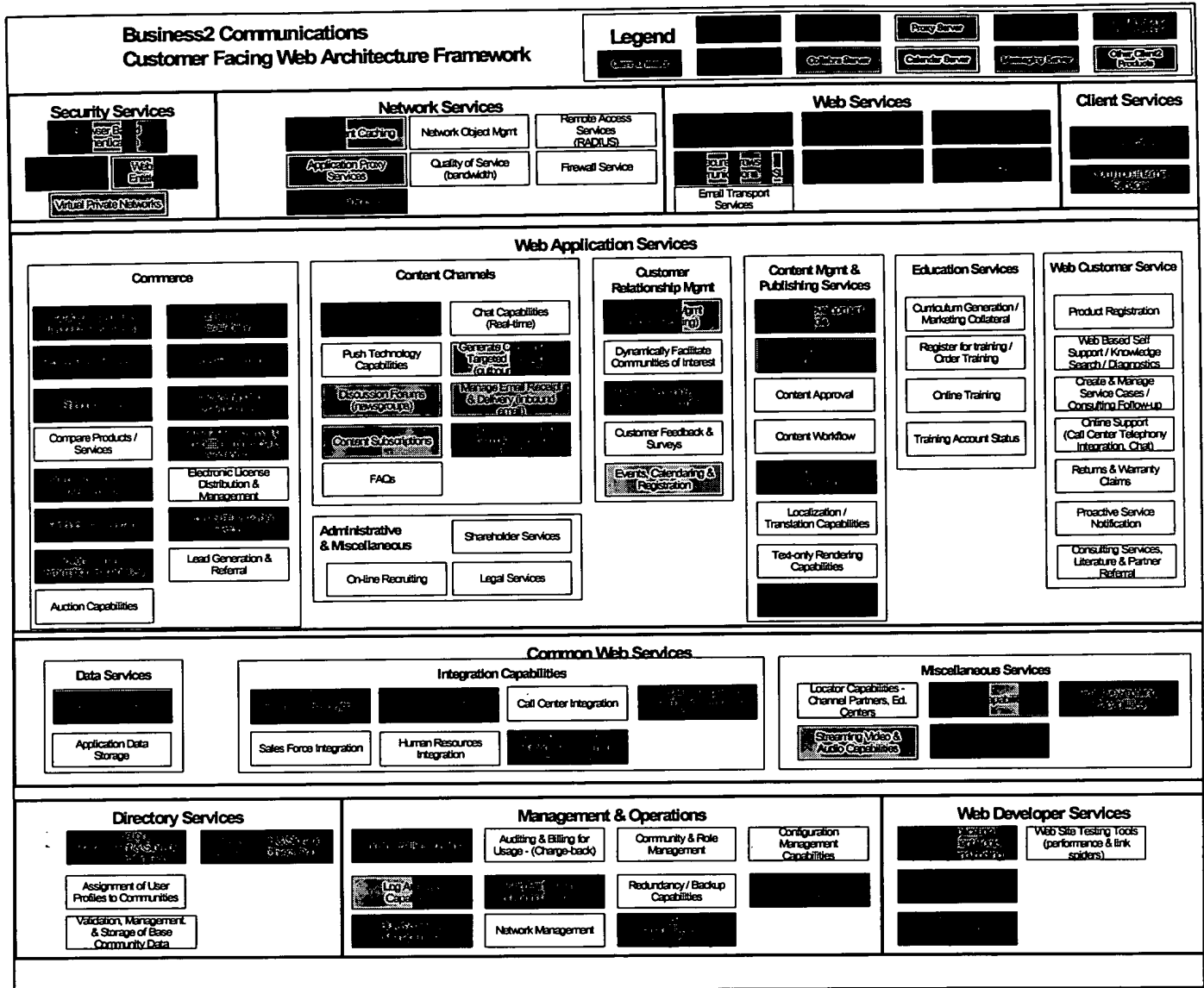


Figure 1V

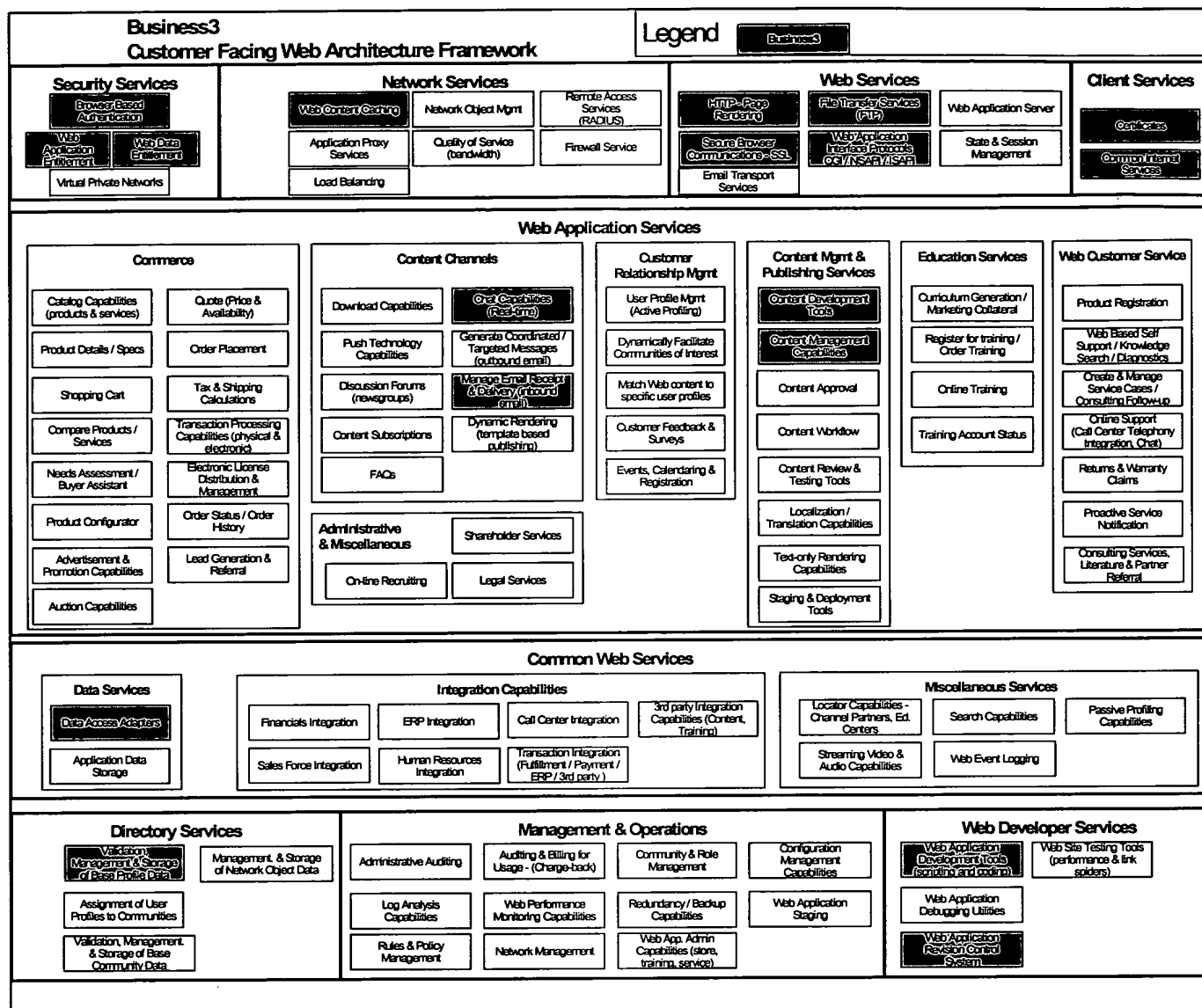


Figure 1W

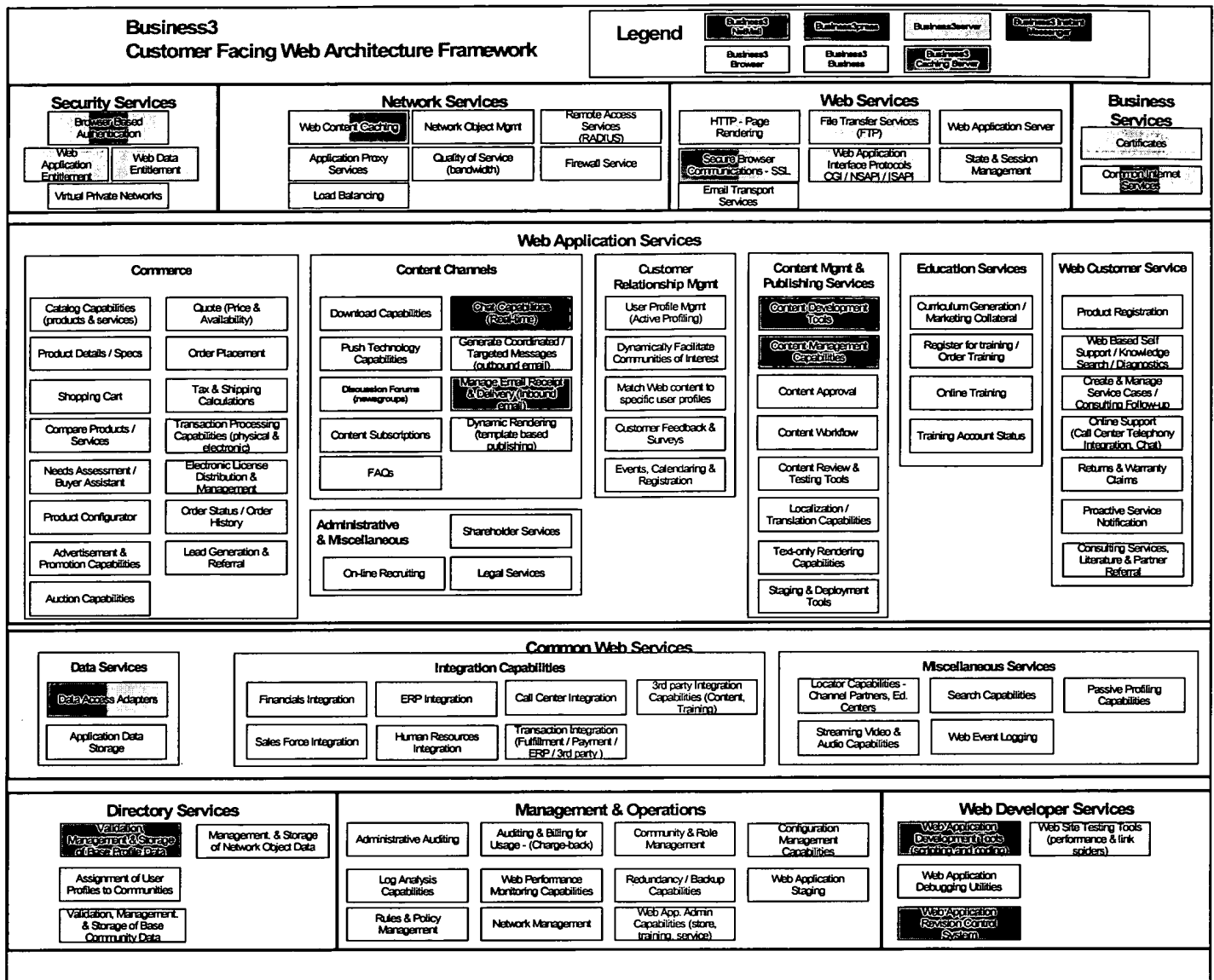


Figure 1X

## Business1

### Customer Facing Capabilities - Infrastructure Services



#### Core Capabilities

#### Extended Detail

##### Security Services



- ☒ Verifies user identity using built-in browser functionality
- ☒ Maintains authentication information throughout sessions
- ☒ Utilizes centralized directory of profiles
- ☐ Provides LDAP compatibility
- ☐ Provides NDS compatibility



- ☒ Restricts access to specific web applications based upon user privileges
- ☒ Determines if a user or group of users have permission to perform an operation in a specific application
- ☒ Utilizes centralized directory of profiles for entitlement data
- ☒ Provides LDAP compatibility
- ☐ Provides NDS compatibility



- ☒ Restricts access to web content and data based upon user privileges
- ☒ Determines if a user or group of users have permission to manipulate web data (create, read, update, delete)
- ☒ Utilizes centralized directory of profiles for entitlement data
- ☒ Provides LDAP compatibility
- ☐ Provides NDS compatibility



- ☒ Offers guaranteed secure data transfer
- ☒ Allows remote login
- ☒ Provides ability to grant varying levels of access based on user identity

##### Network Services



- ☒ Stores frequently requested web pages and graphics in a temporary location
- ☒ Serves up previously cached content without accessing original source
- ☒ Updates cache automatically to ensure integrity of content

#### Core Capabilities

#### Extended Detail



- ☒ Passes requests from external clients to internal web servers and returns results
- ☒ Serves as trusted agent to access machines on the behalf of clients
- ☒ Hides IP Addresses of machines from external clients
- ☒ Provides configuration control over access permissions
- ☐ Provides reverse proxy services



- ☐ Spreads tasks among application servers using an intelligent load-balance scheme (e.g., CPU utilization)
- ☐ Provides a centralized task distribution mechanism for routing services
- ☐ Identifies servers that are off-line and re-routes traffic



- ☒ Provides centralized directory to facilitate network object interactions
- ☒ Provides ability to administer network objects (e.g. printers, routers)



- ☒ Offers range of speed and bandwidth based on customer profile (e.g., larger, higher profile customers get faster service upon request)



- ☐ Enables high density modem pooling
- ☐ Provides a single dial-in number for ISDN or Analog calls and an automatic back-up number if first one does not work
- ☒ Creates an Integrated Firewall / authentication
- ☒ Allows remote authenticated access to intranet

Figure 1Y

## Client2 Application Server

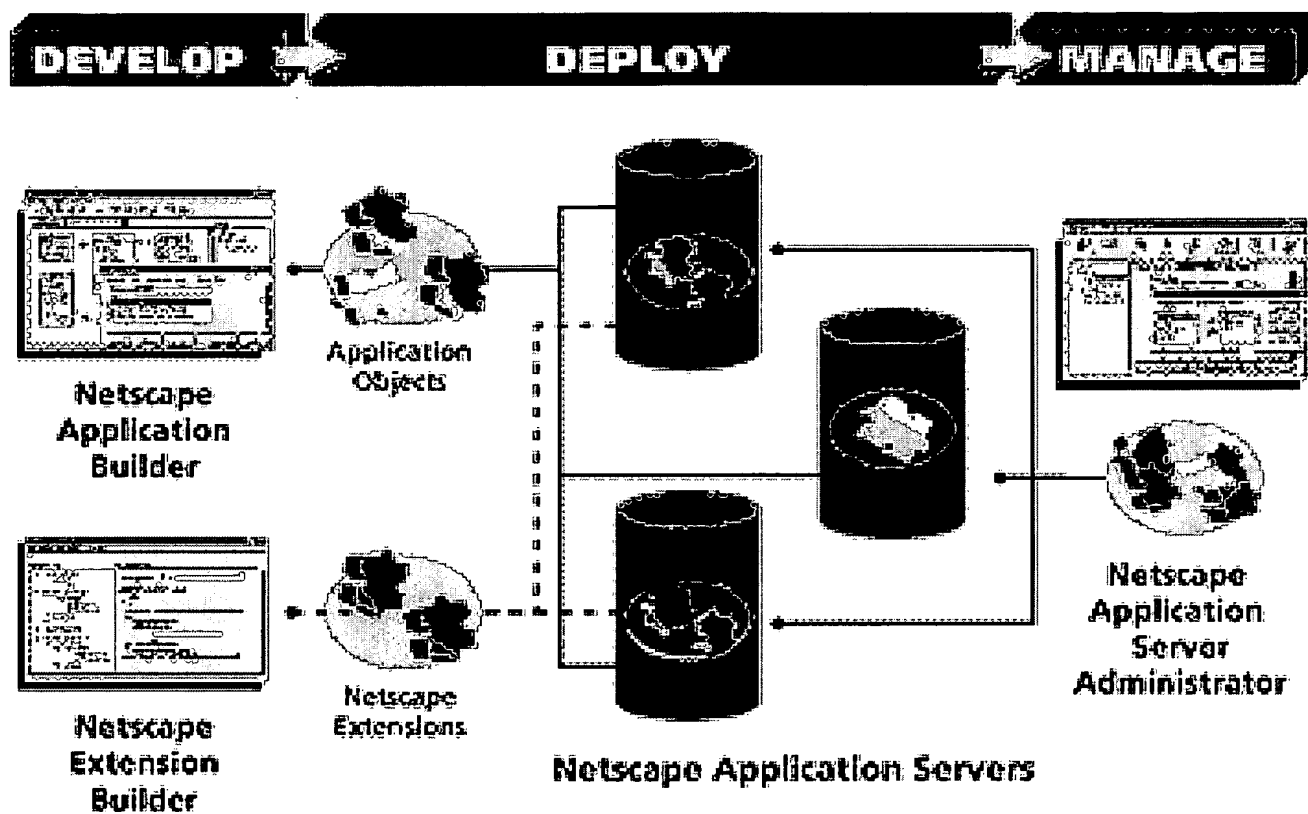


Figure 12

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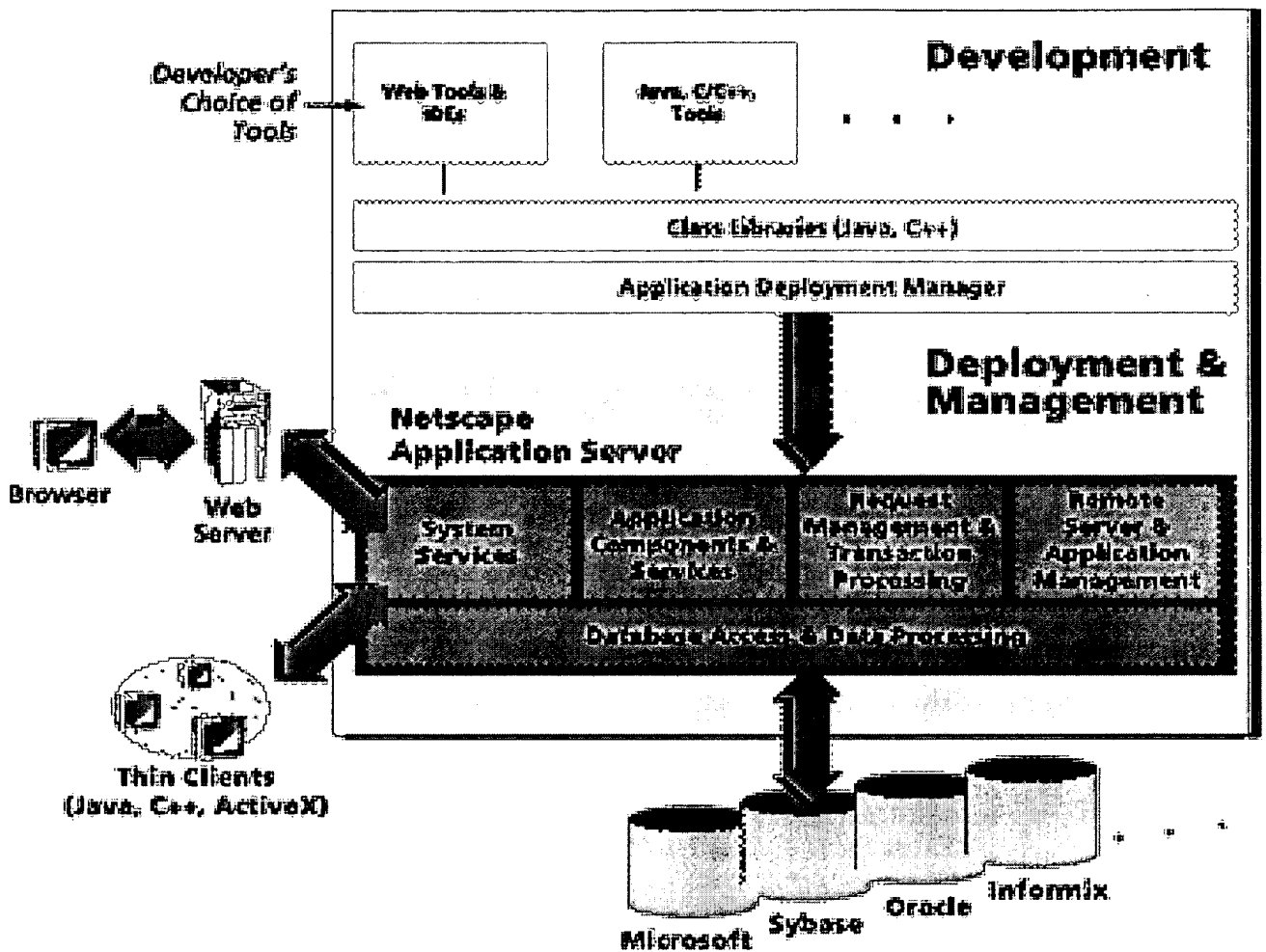


Figure 1AA

## Client2 ECXpert

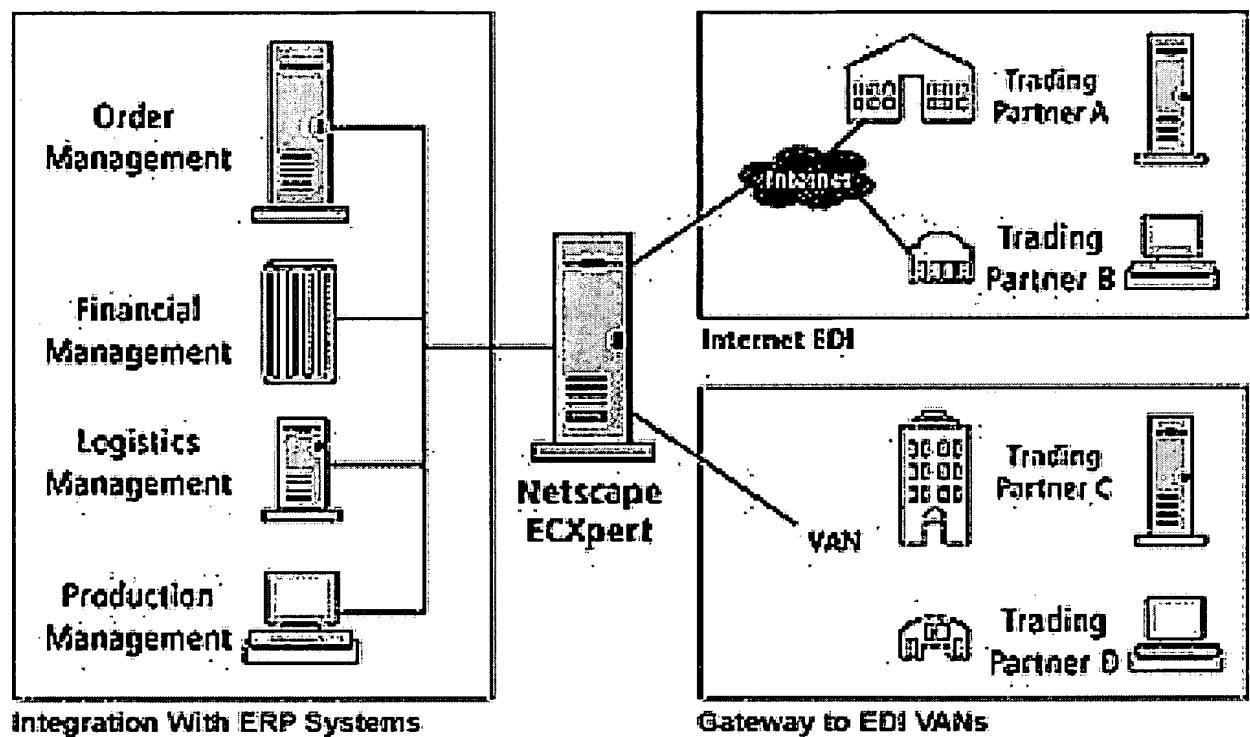


Figure 1AB

Client2 ECXp rt

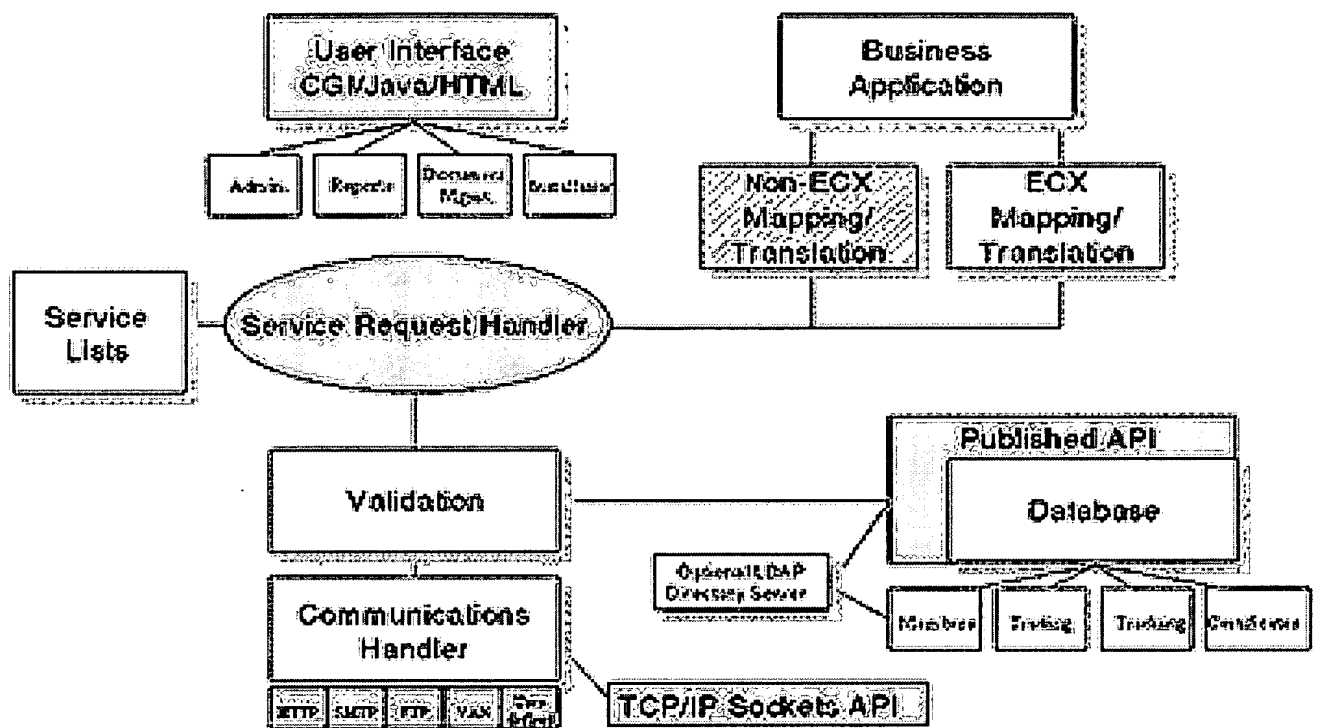


Figure 1AC

Client2 SellerXpert

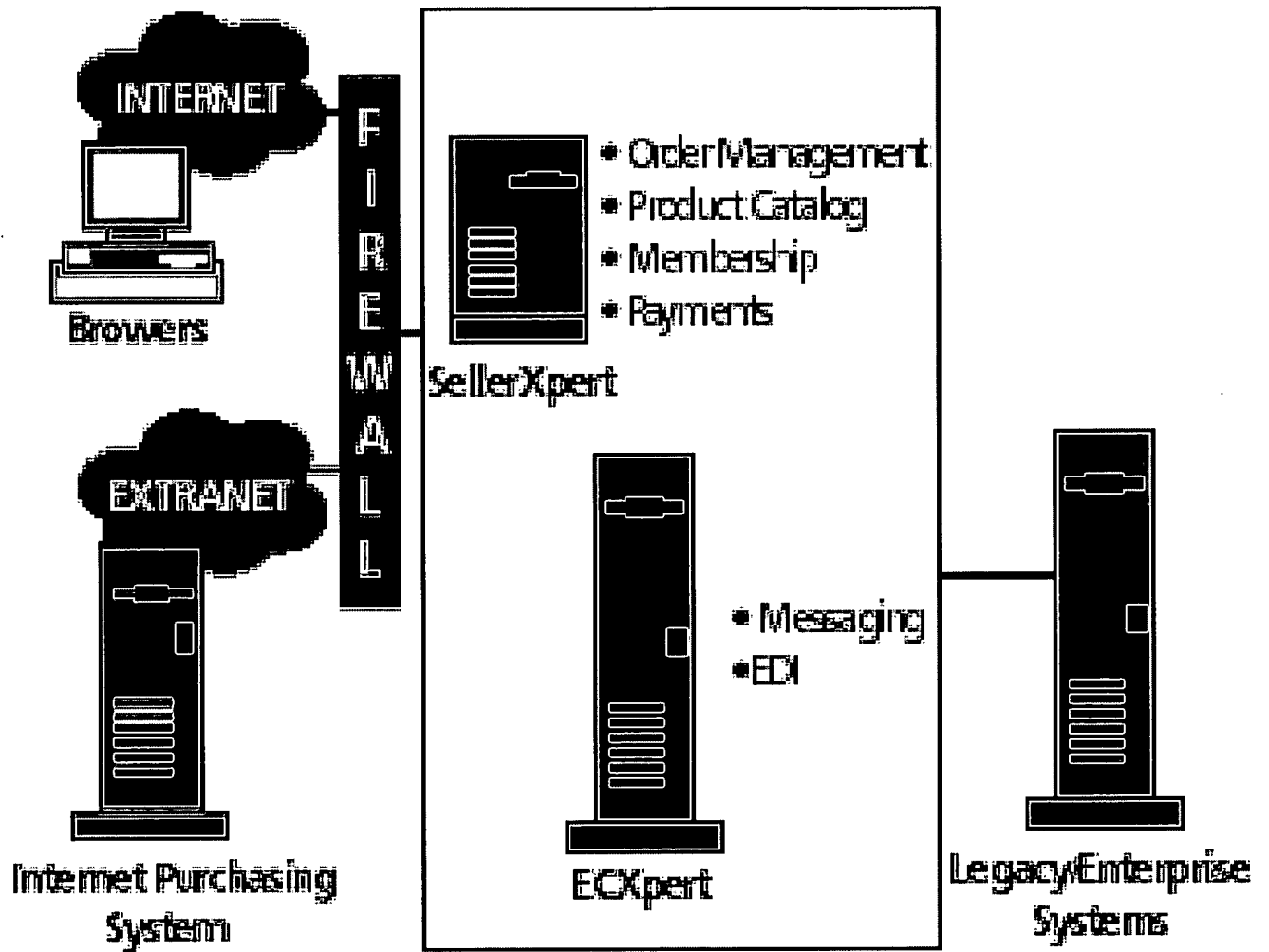


Figure 1AD

Client2 PublishingXp rt

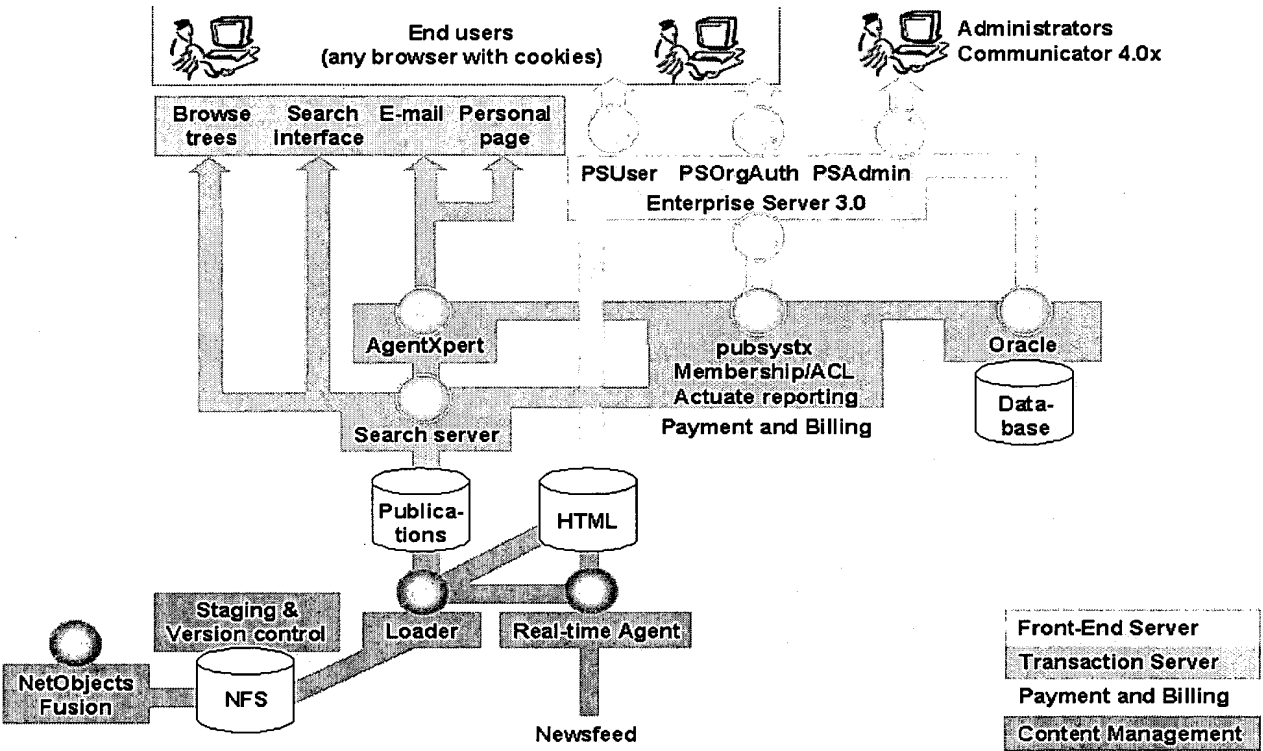
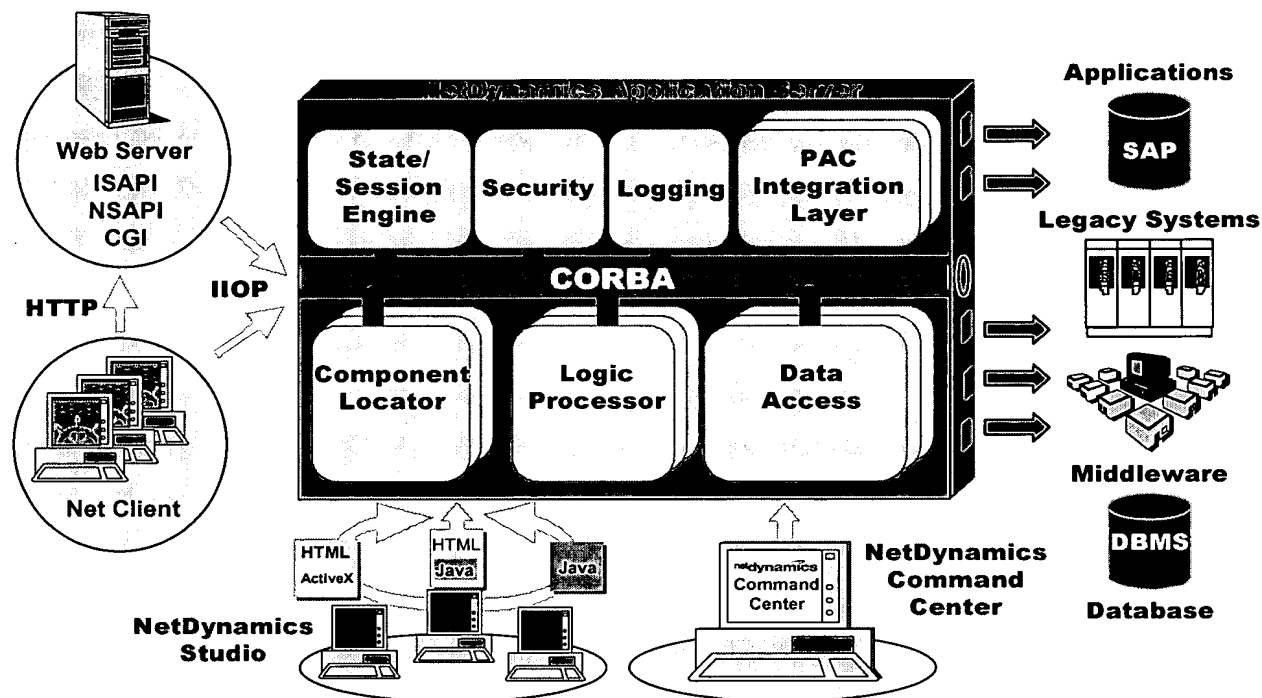


Figure 1AE

Client1 N tDynamics



- ① Any Web browser requests a dynamic-page
- ② The Web server notifies ColdFusion
- ③ ColdFusion processes the dynamic-page based on the CFML tags
- ④ ColdFusion generates an HTML page
- ⑤ The Web server sends the HTML page to the browser

Figure 1AF

# Client1 Internet Mail Server

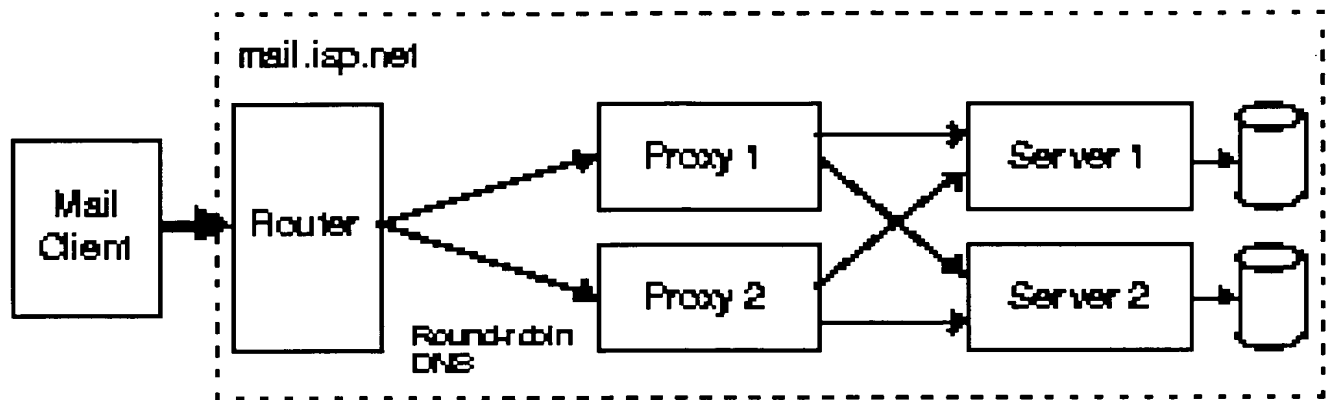
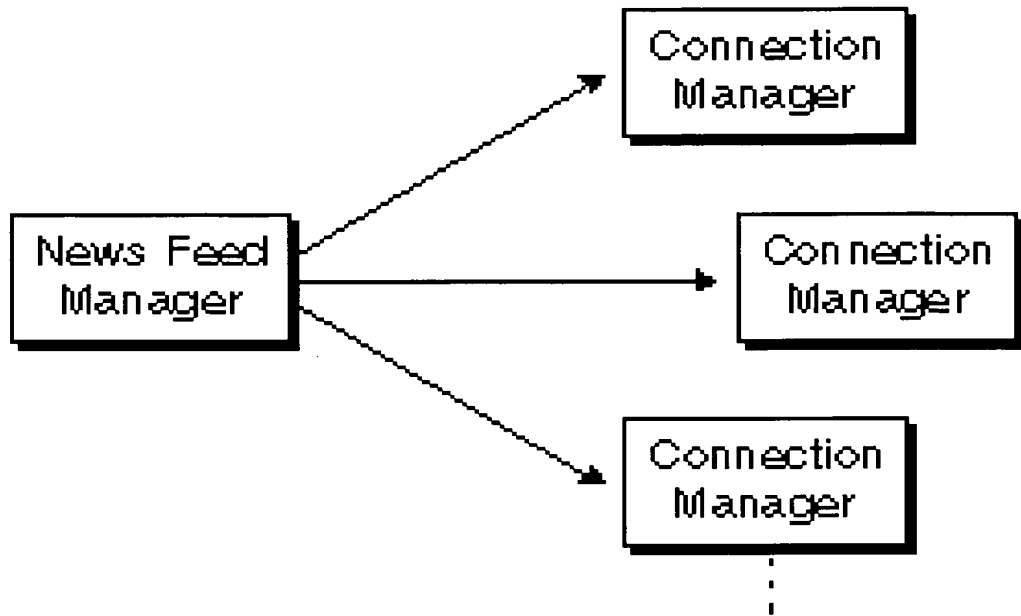


Figure 1AG

**Client Internet News Server**



**Figure 1AH**

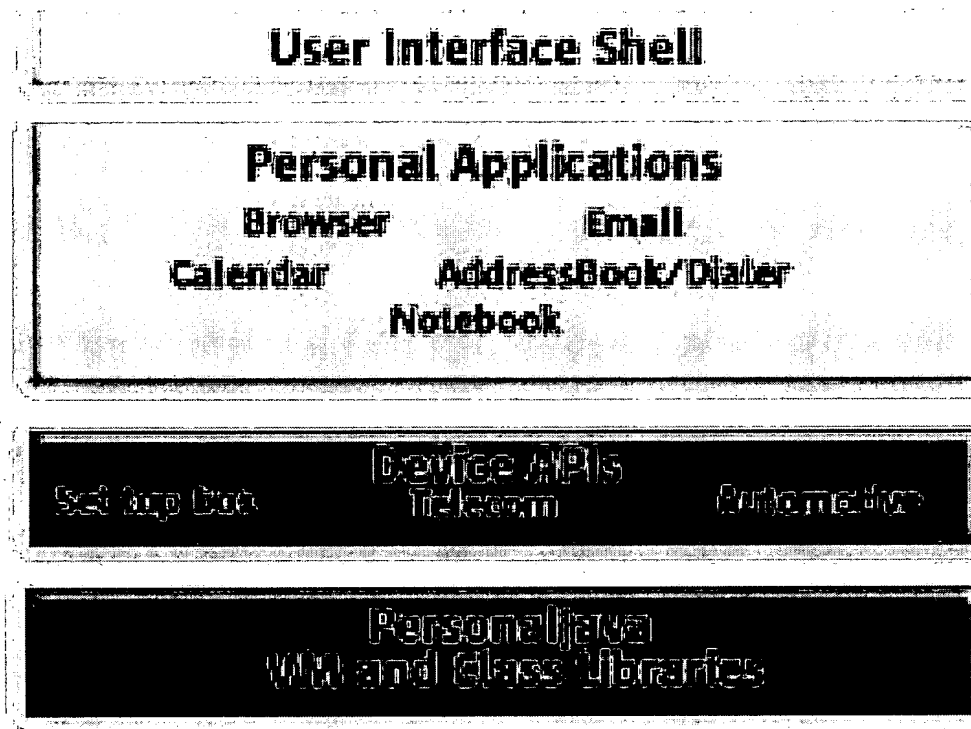


Figure 1A1

## Client Directory Services

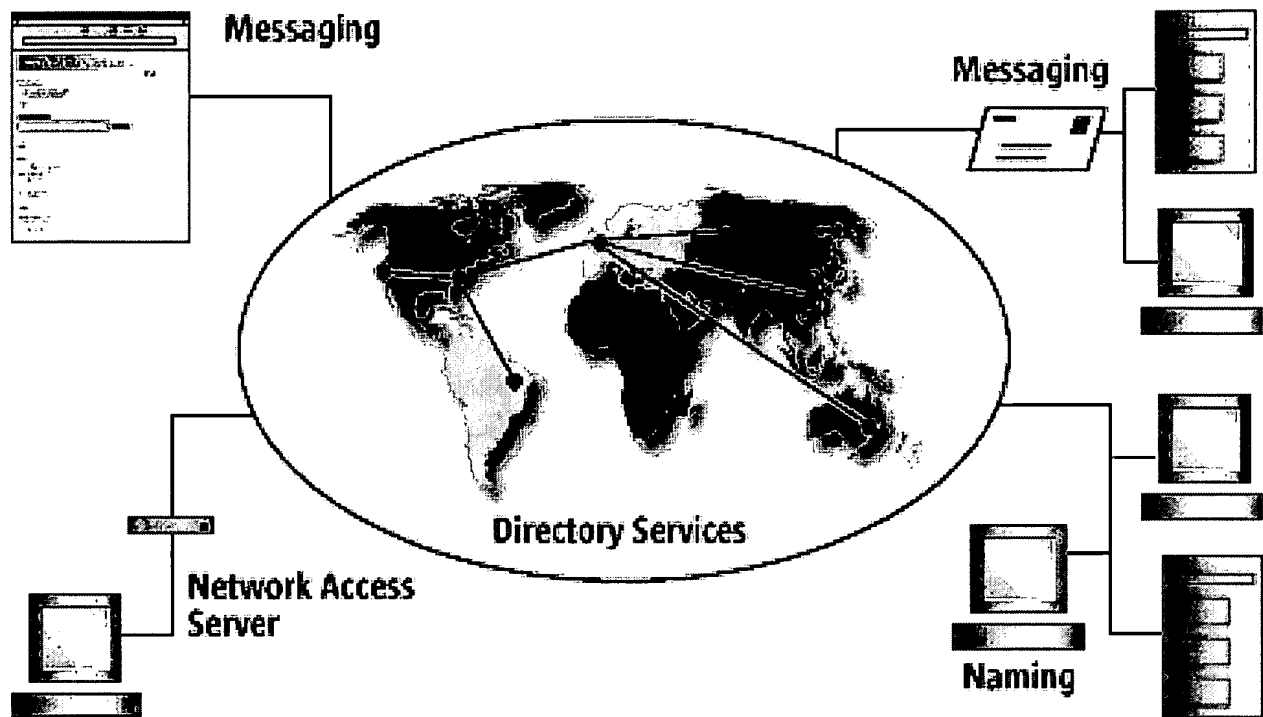


Figure 1AJ

Client JavaWallet

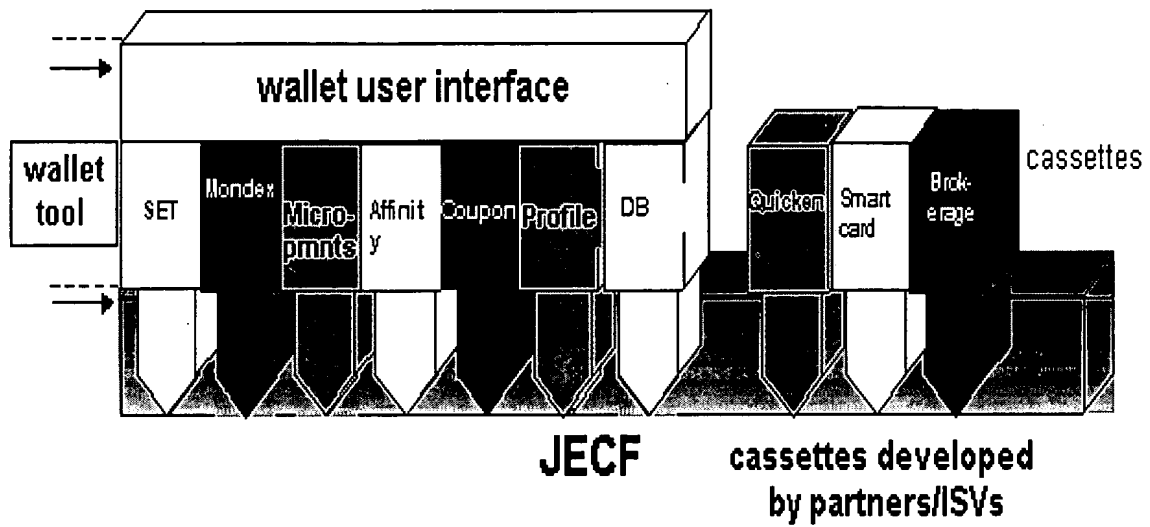


Figure 1AK

Client1Screen Product Suite

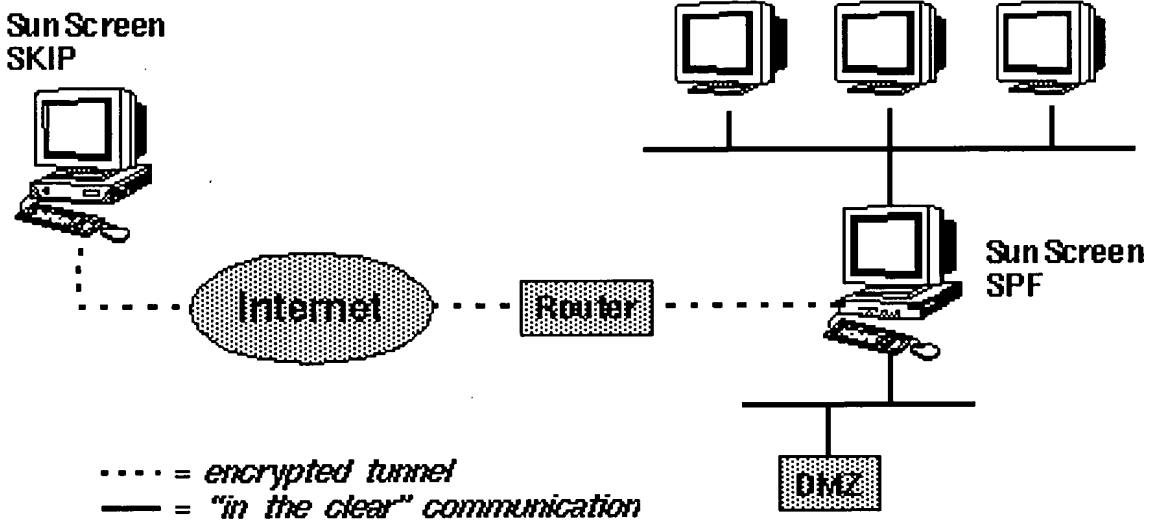


Figure 1AL

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## Netra Internet Server Bundle

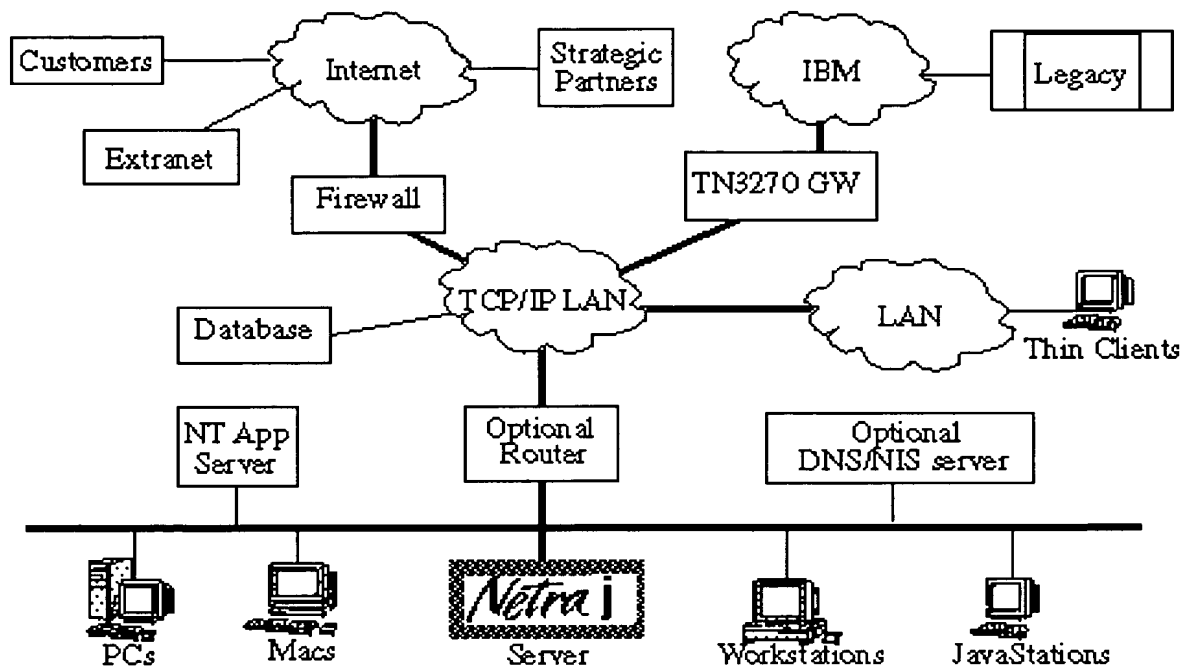


Figure 1AM

**Solaris ISP S rver Bundl**

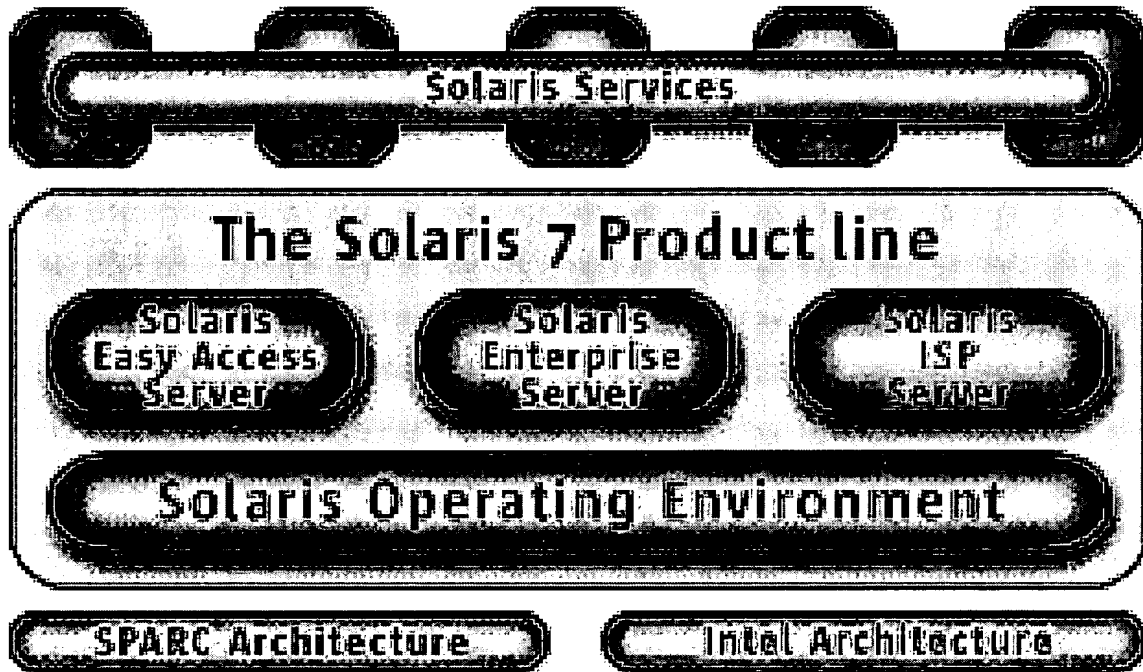


Figure 1AN

09320921.052799

## Development & Testing Tools

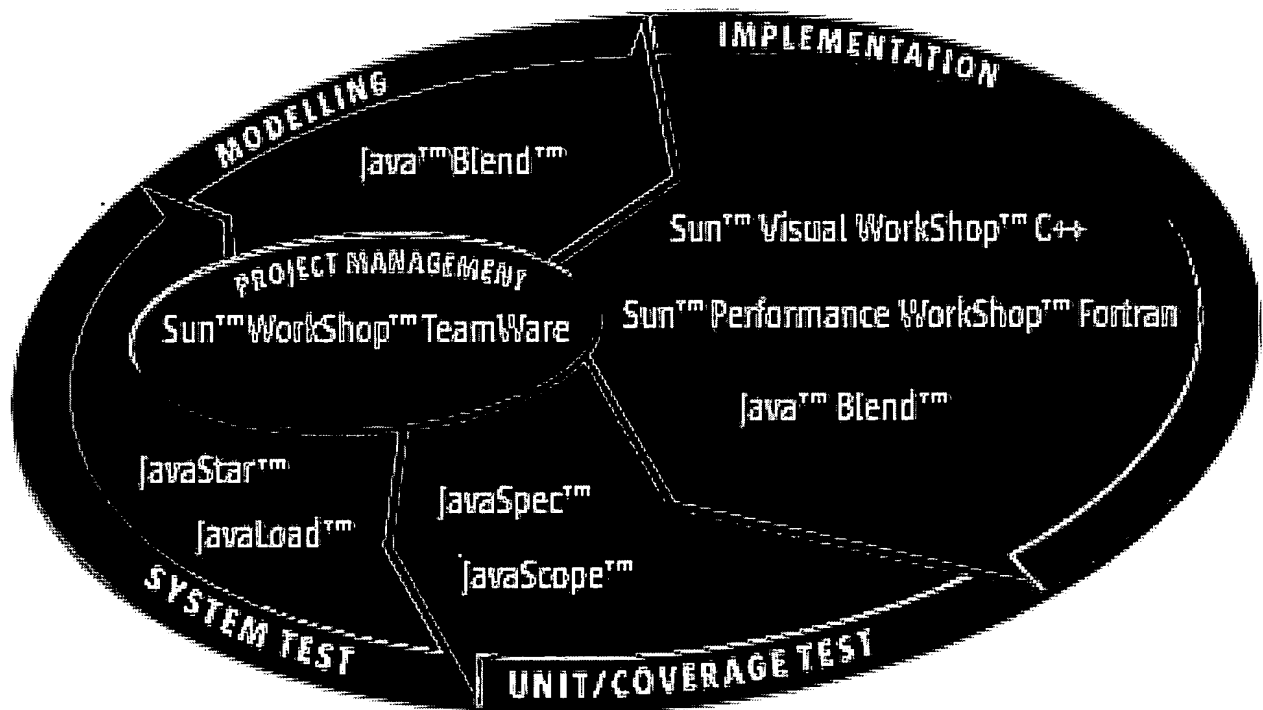


Figure 1AO

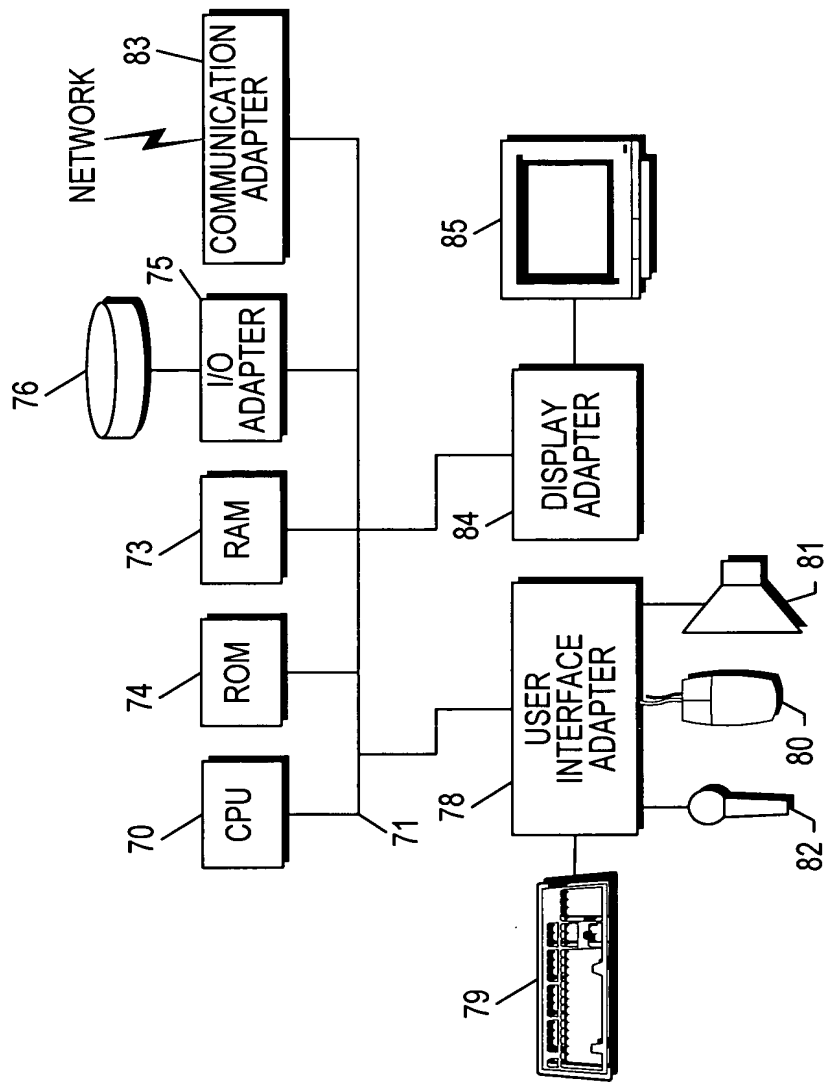


Figure 2A

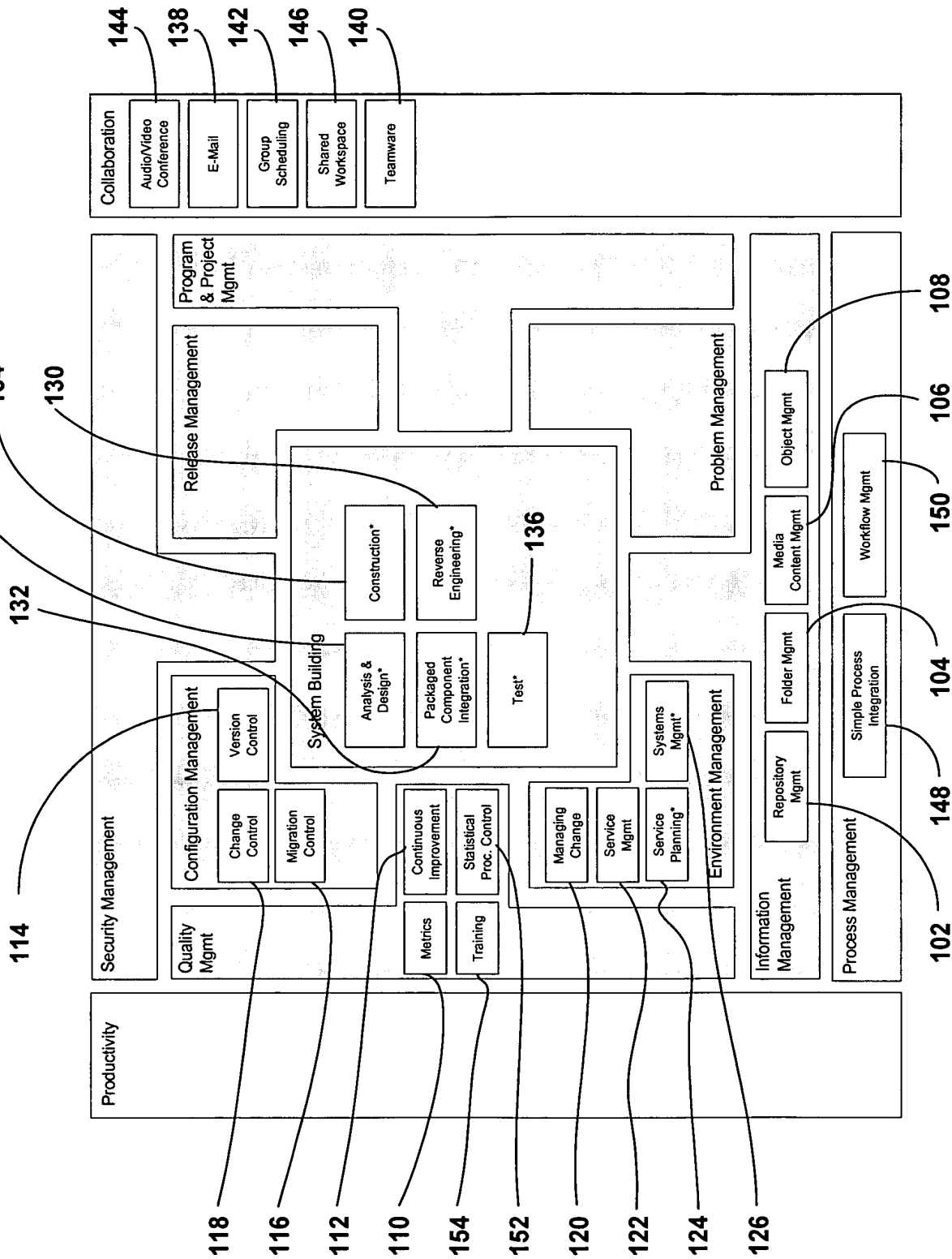


Figure 2B

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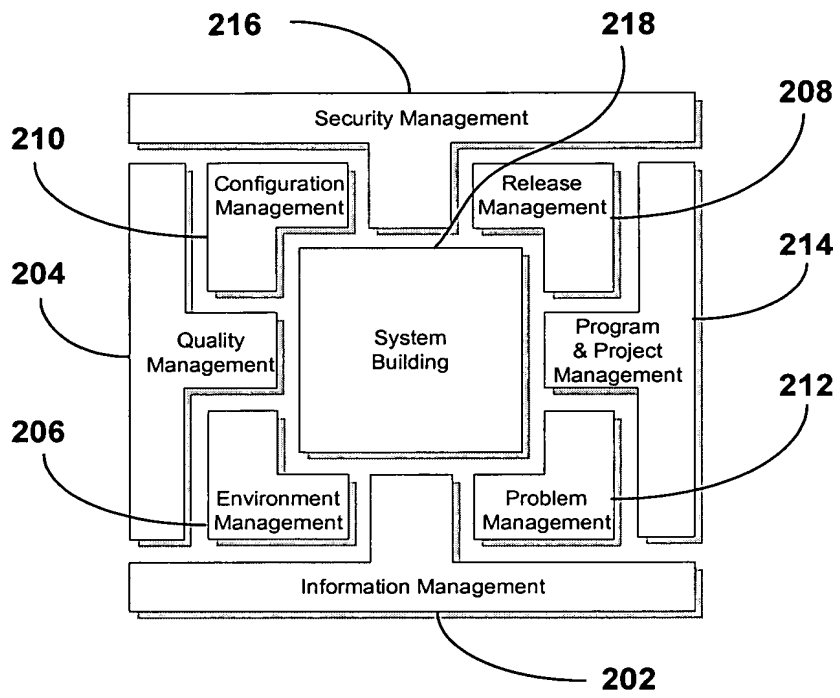
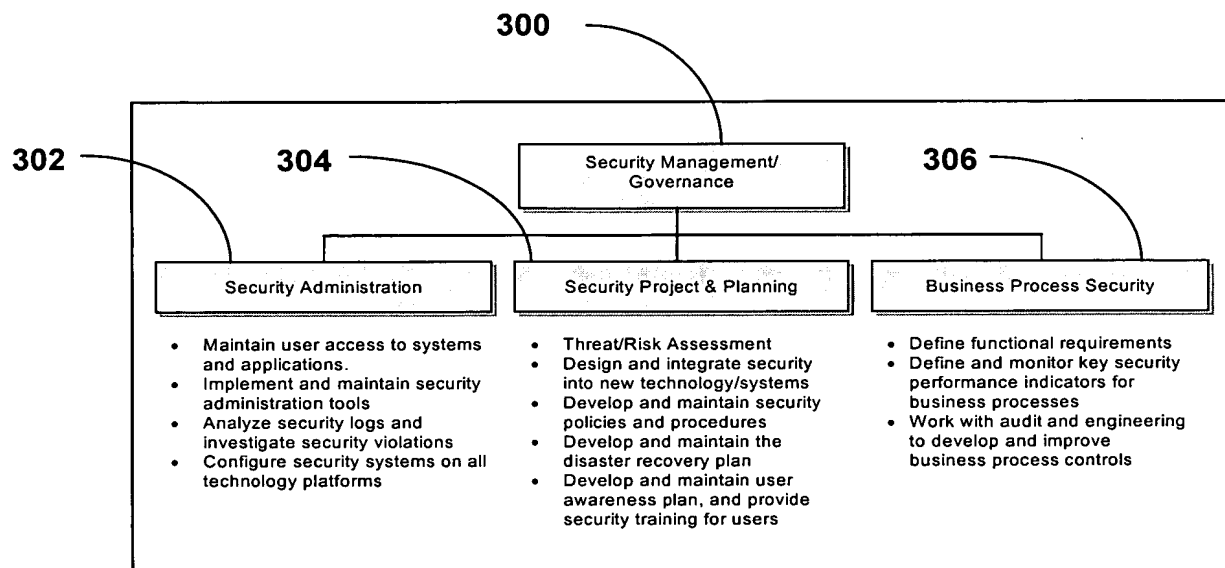
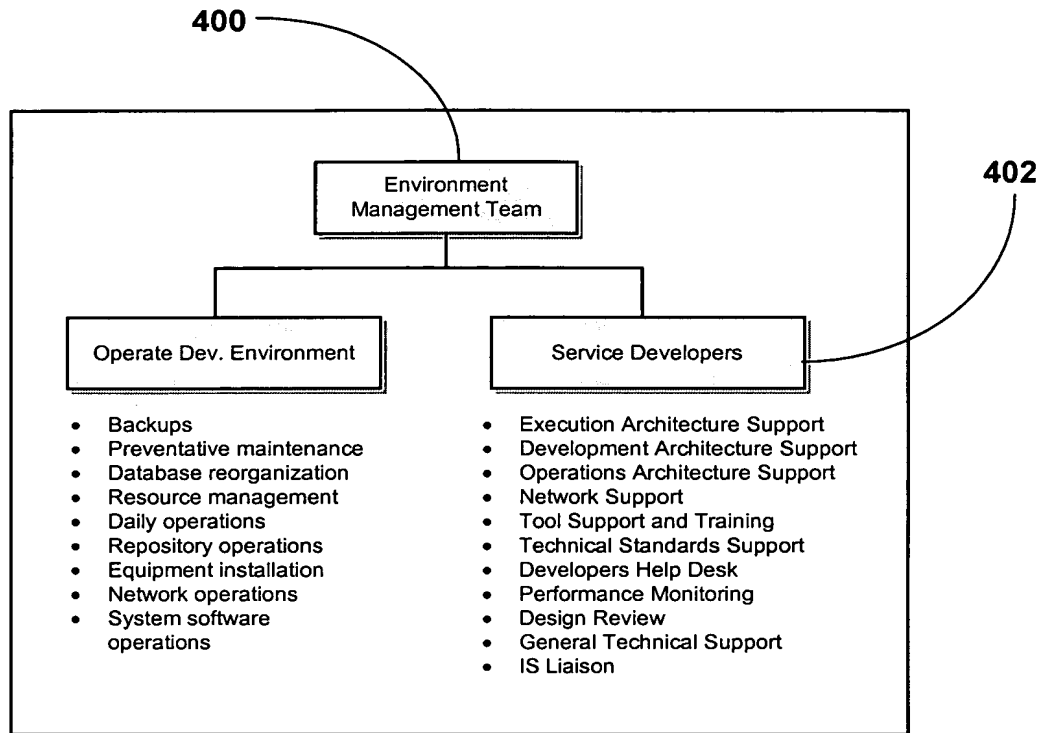


Figure 2C

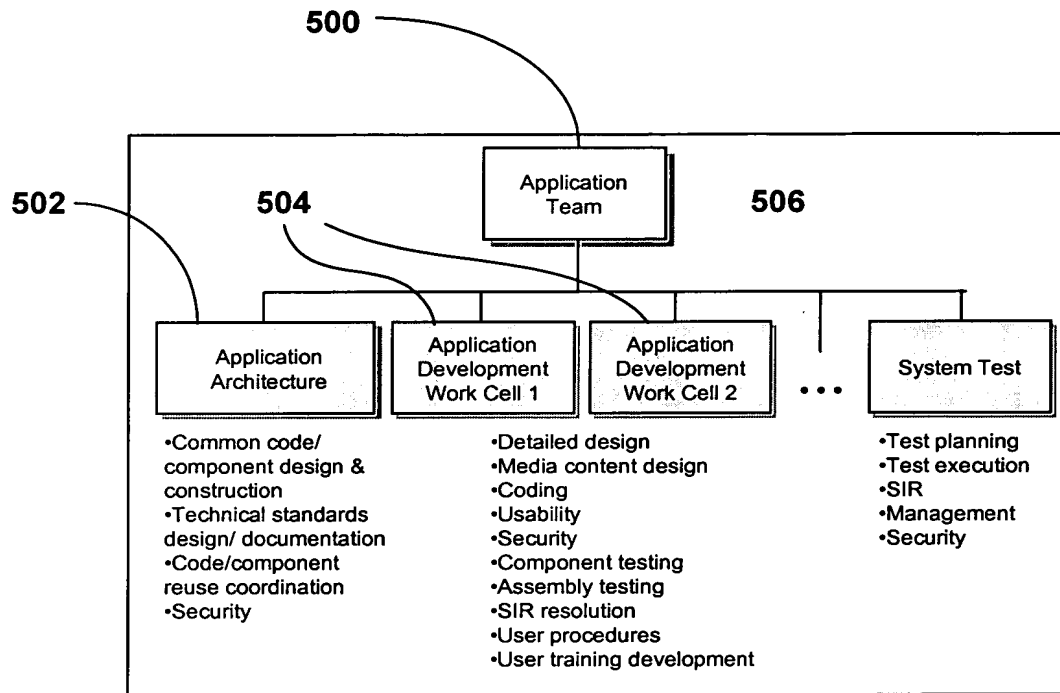


**Figure 3**

09320921-052799



**Figure 4**



**Figur 5**

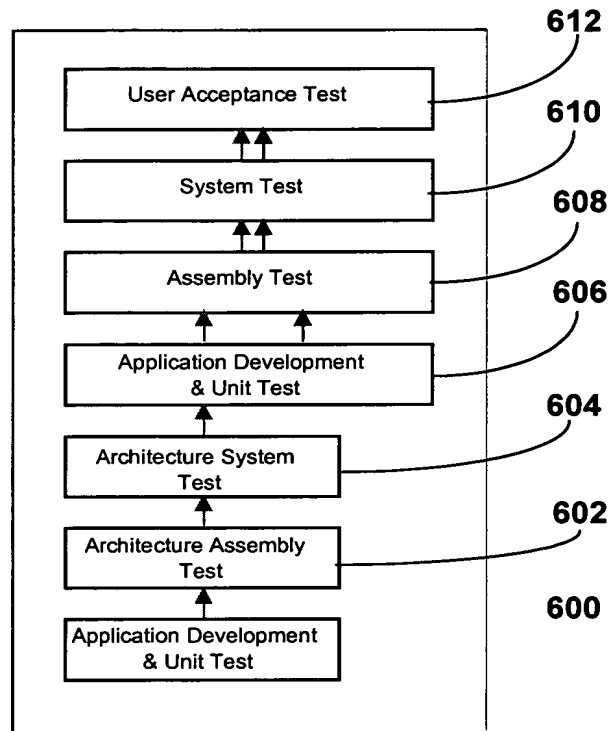


Figure 6

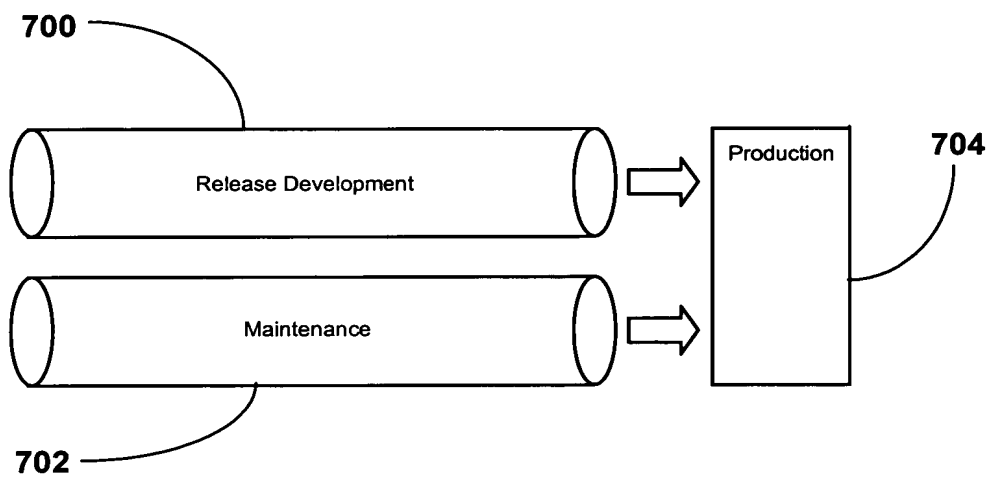
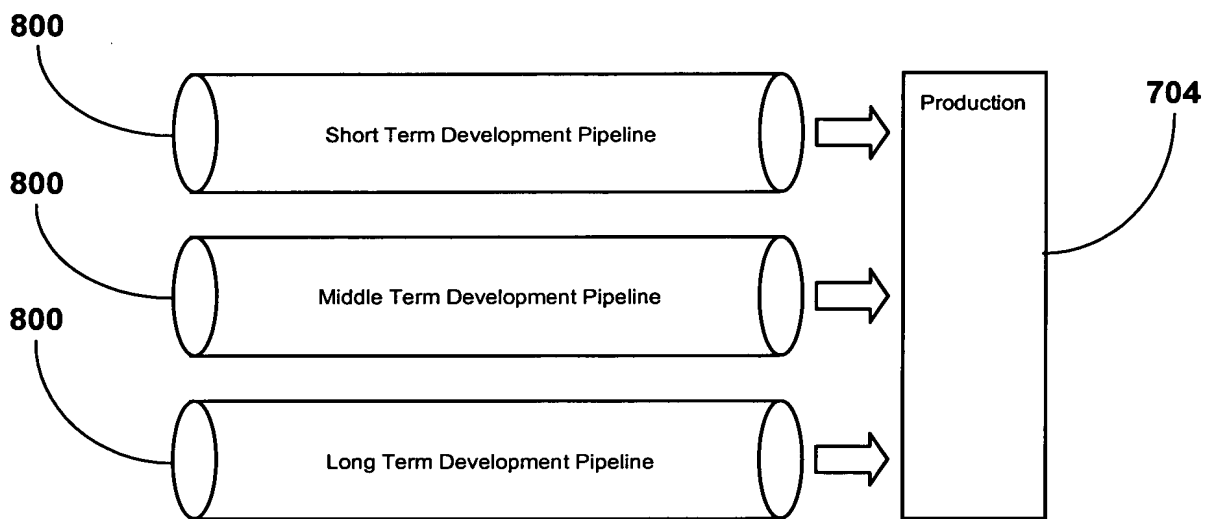


Figure 7



**Figur 8**

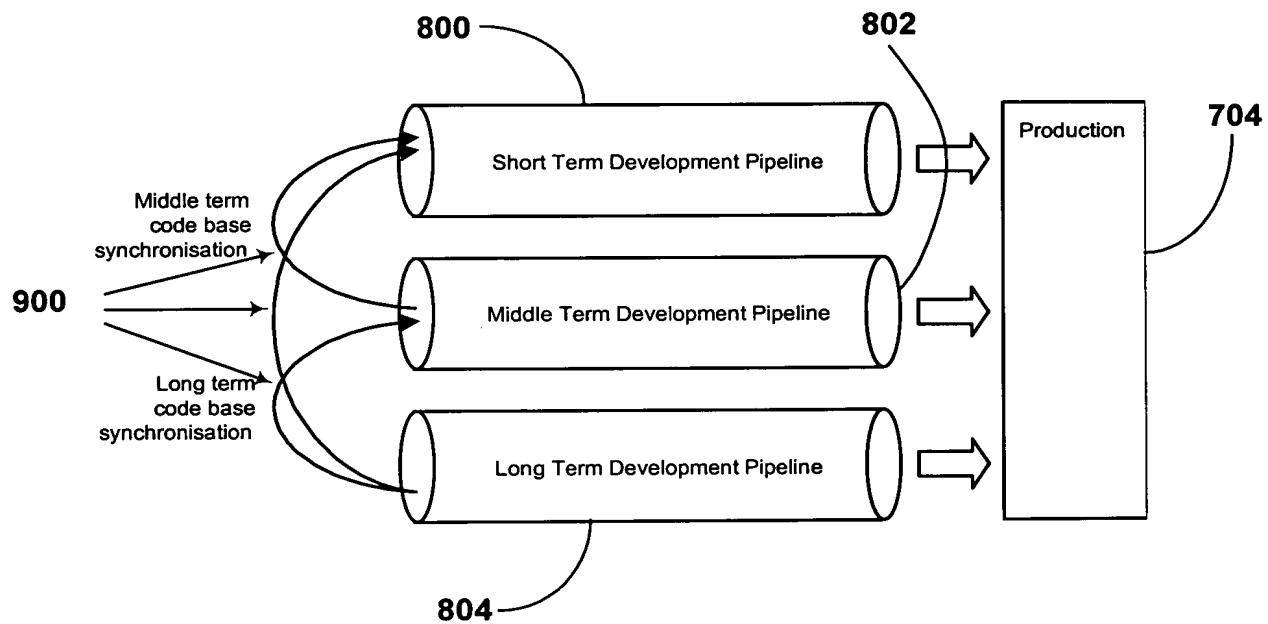


Figure 9

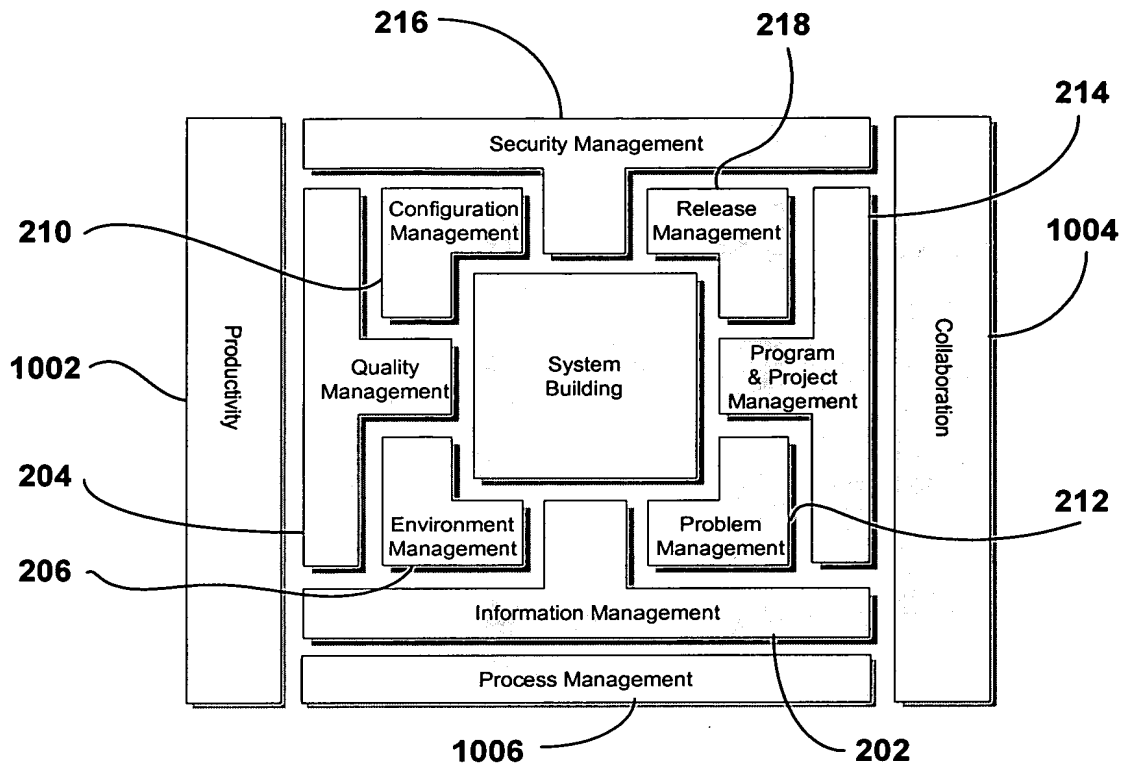


Figure 10

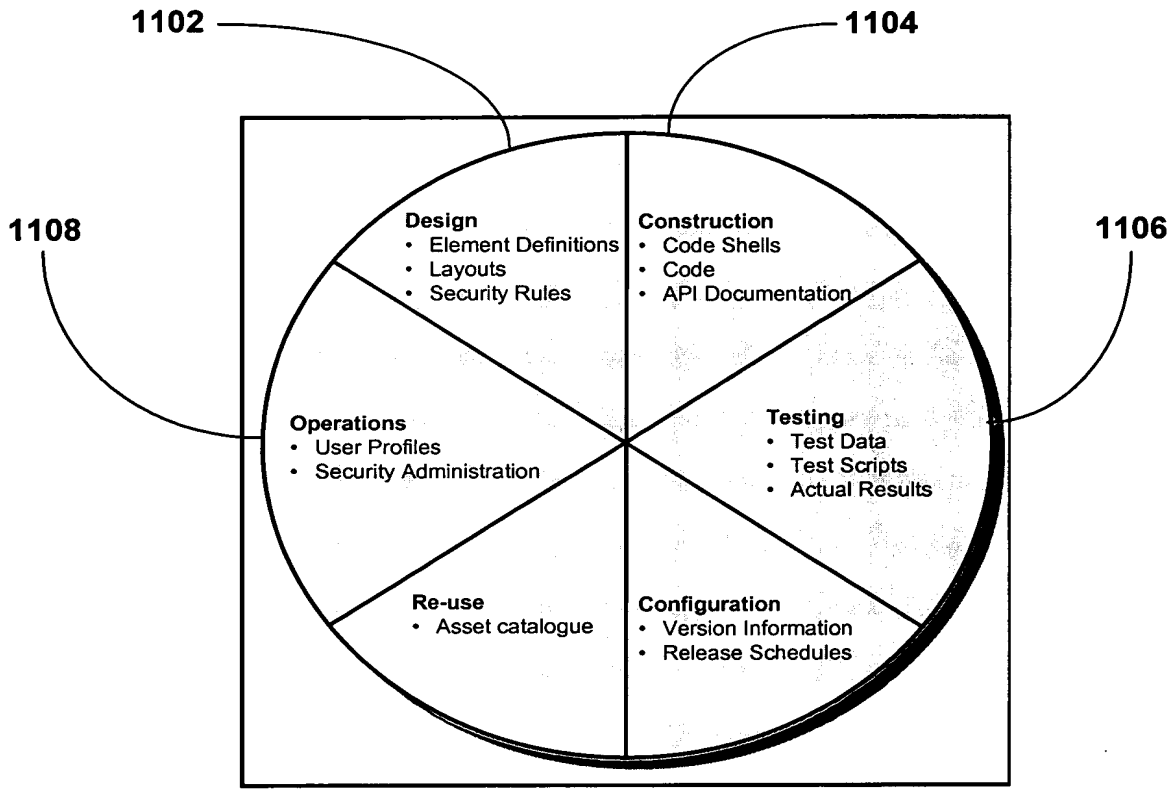


Figure 11

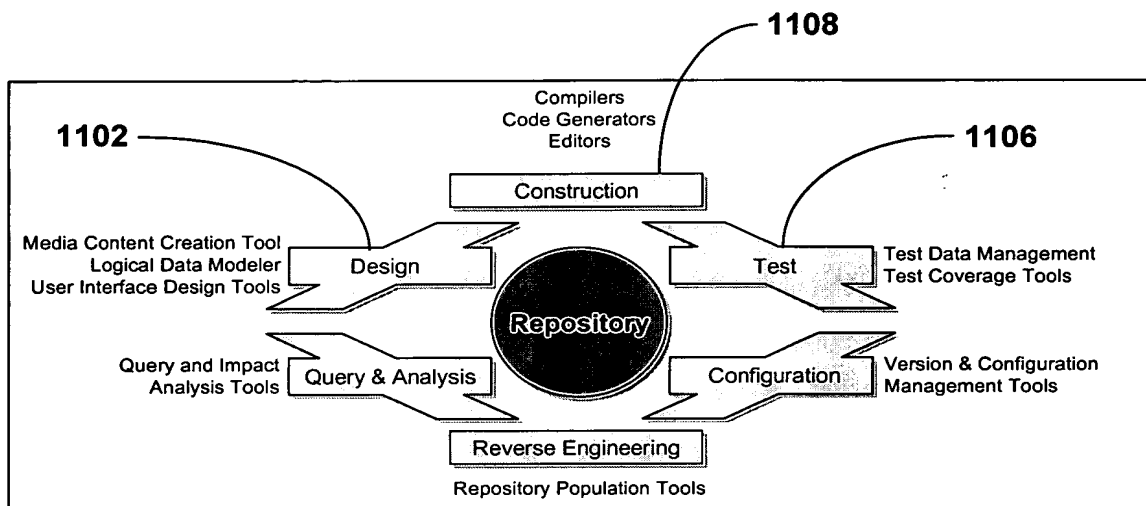
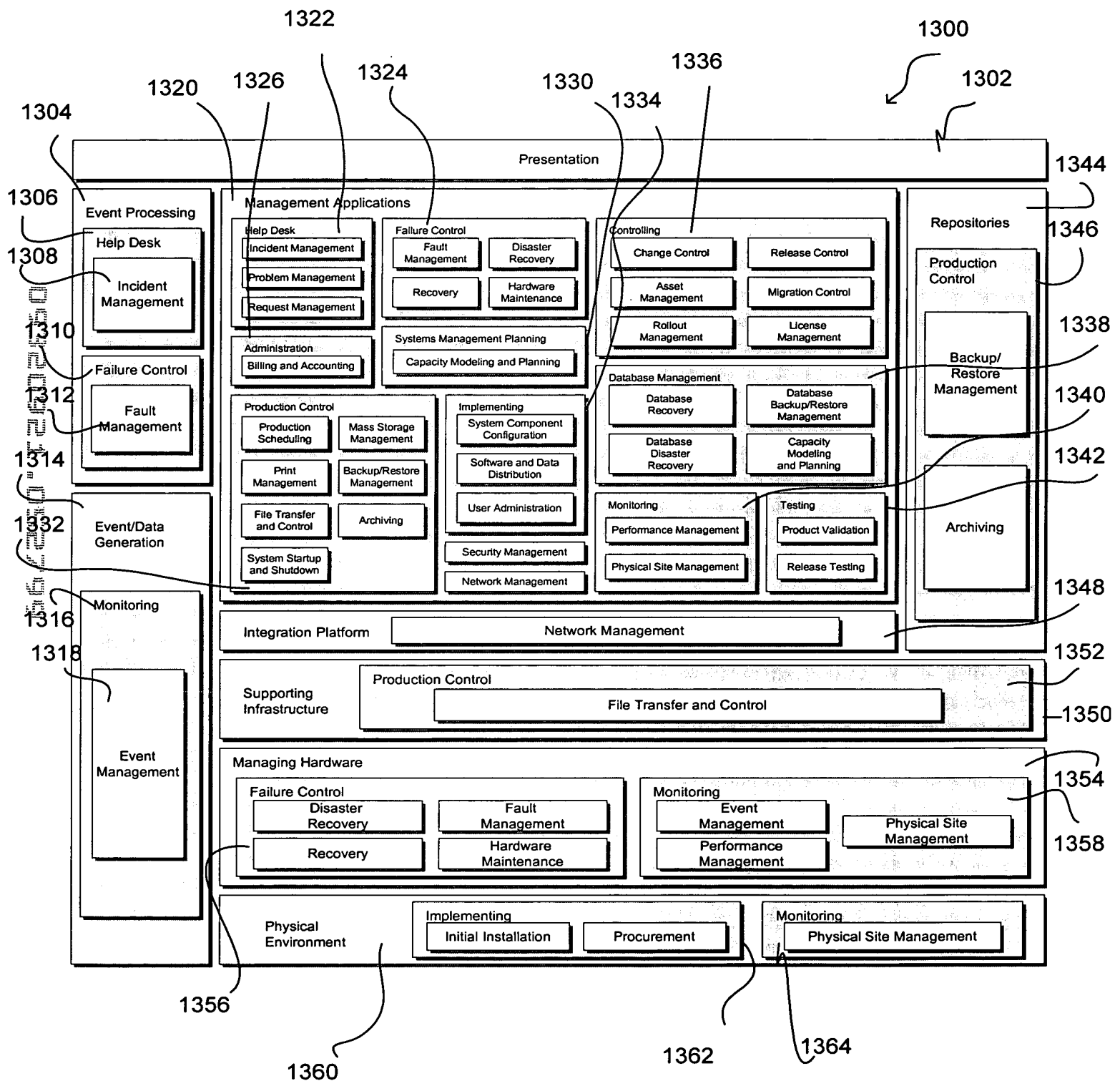


Figure 12



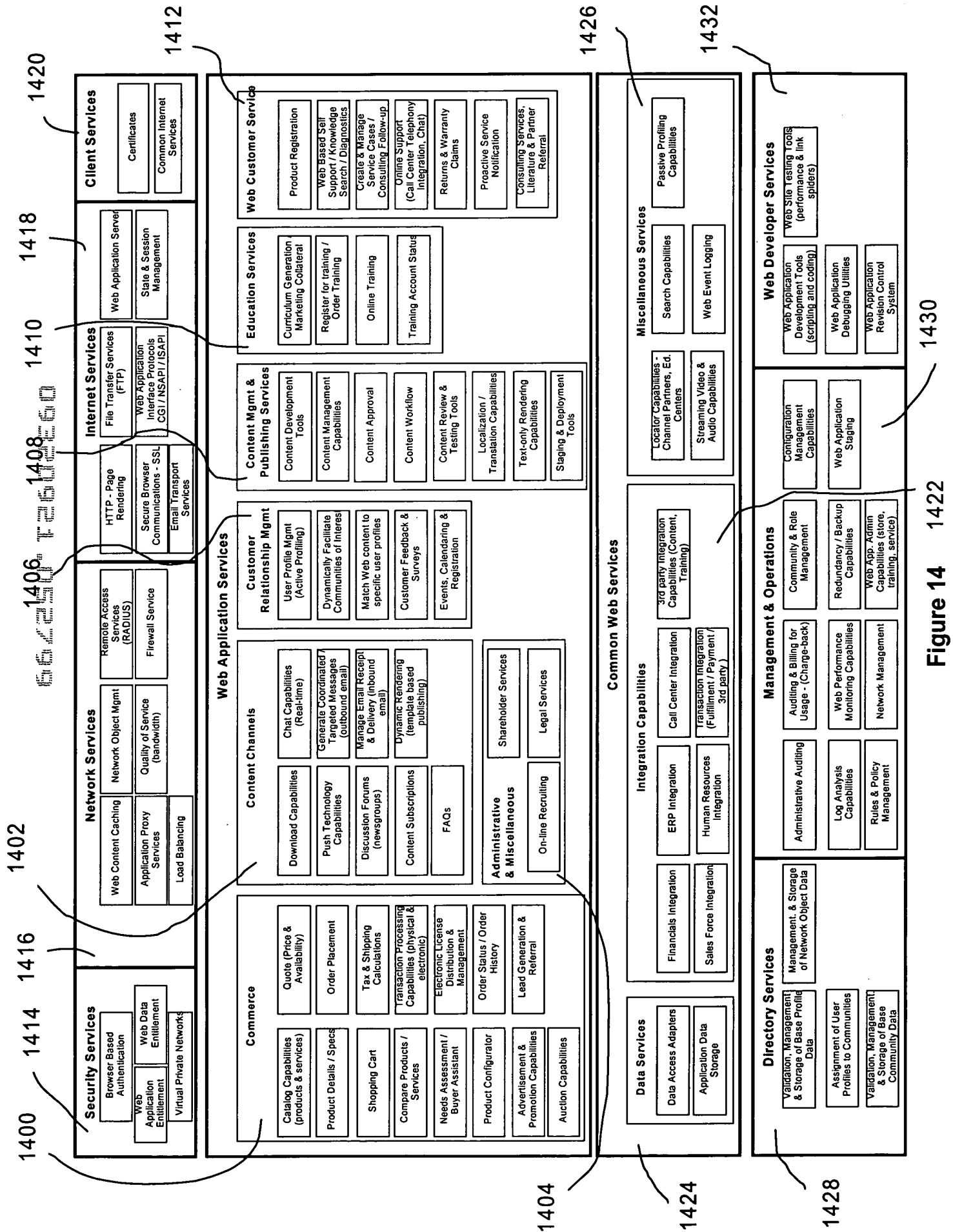
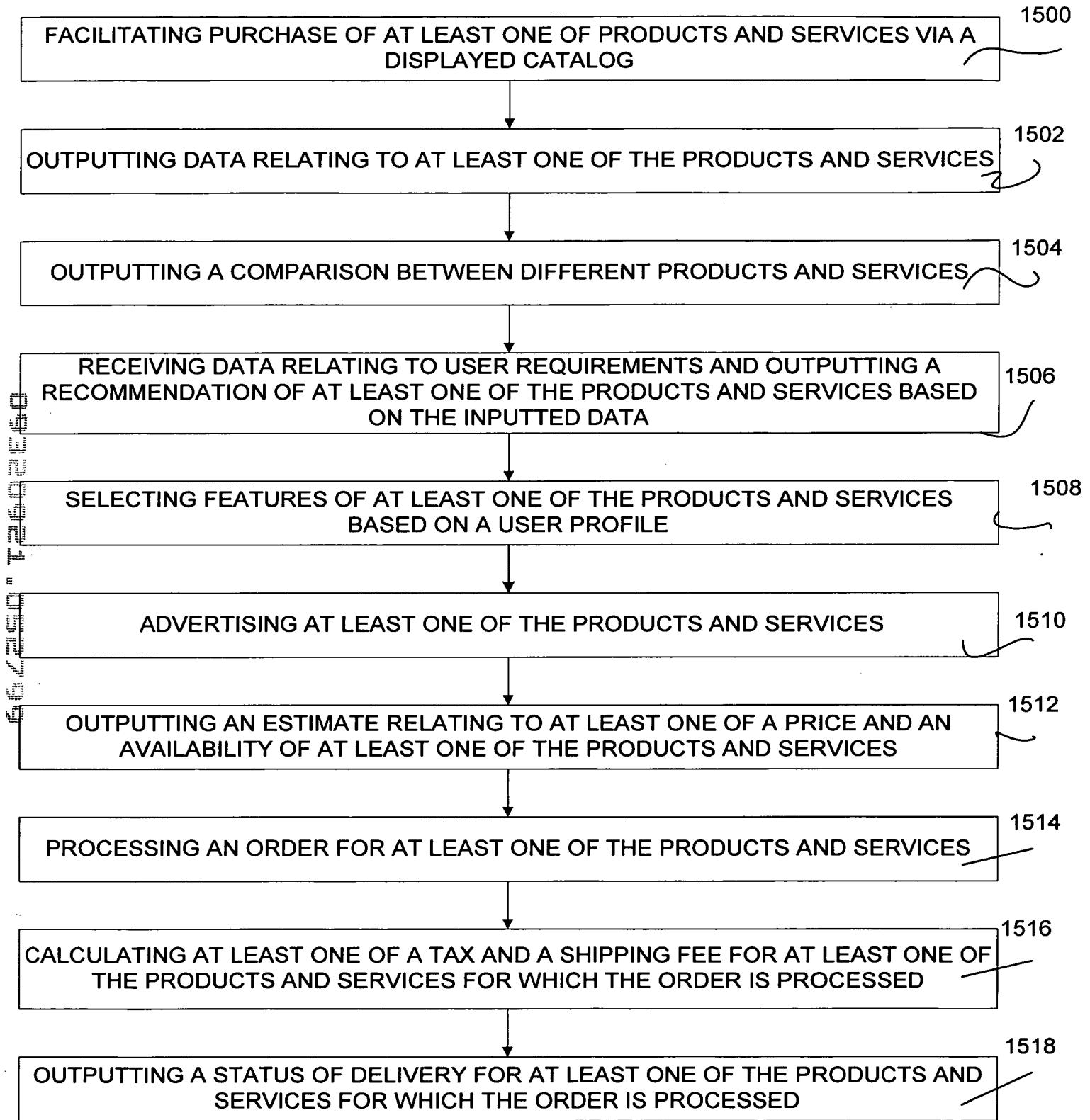
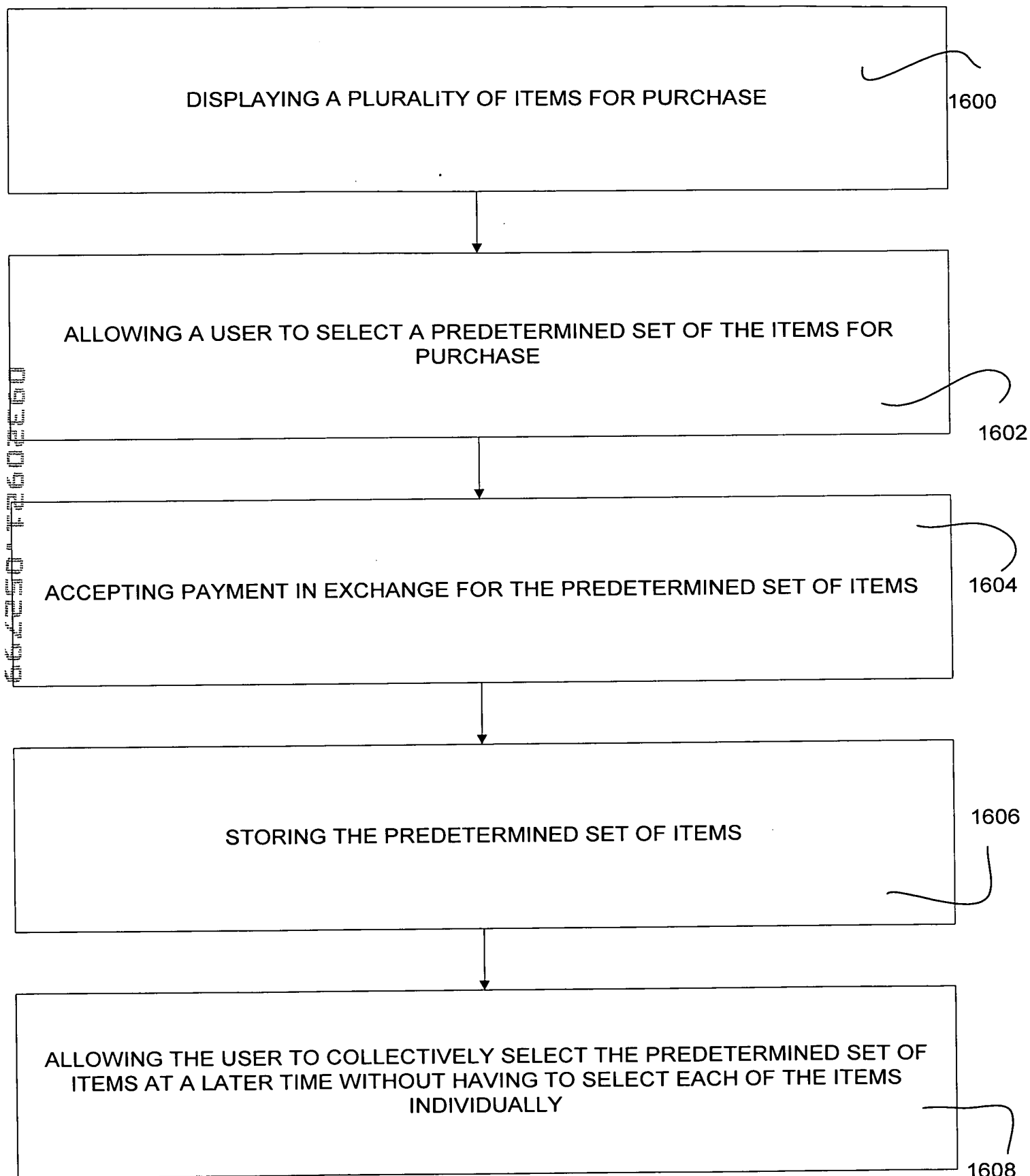


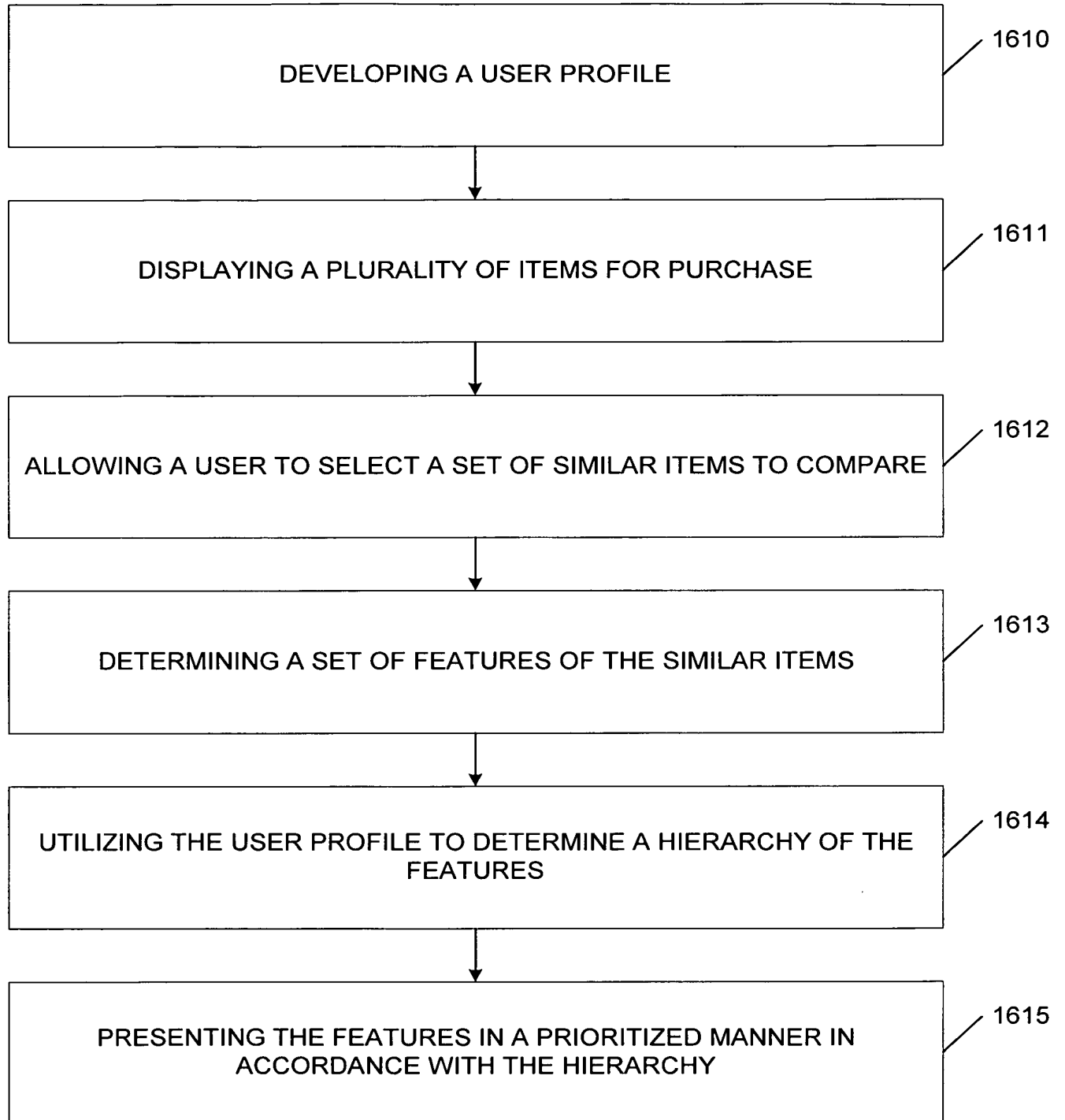
Figure 14



**Figure 15**



**Figure 16**



1504

Figure 16A

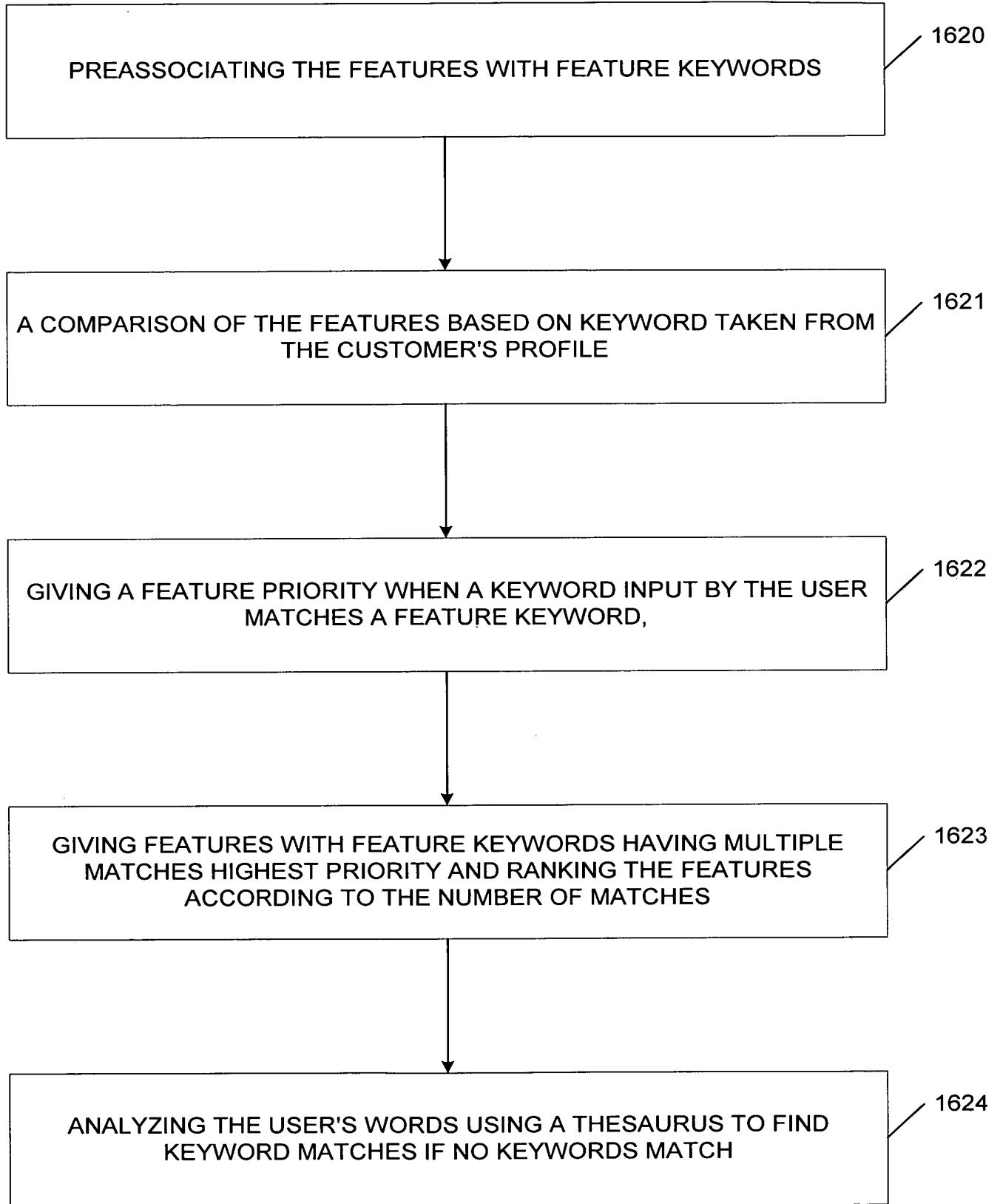
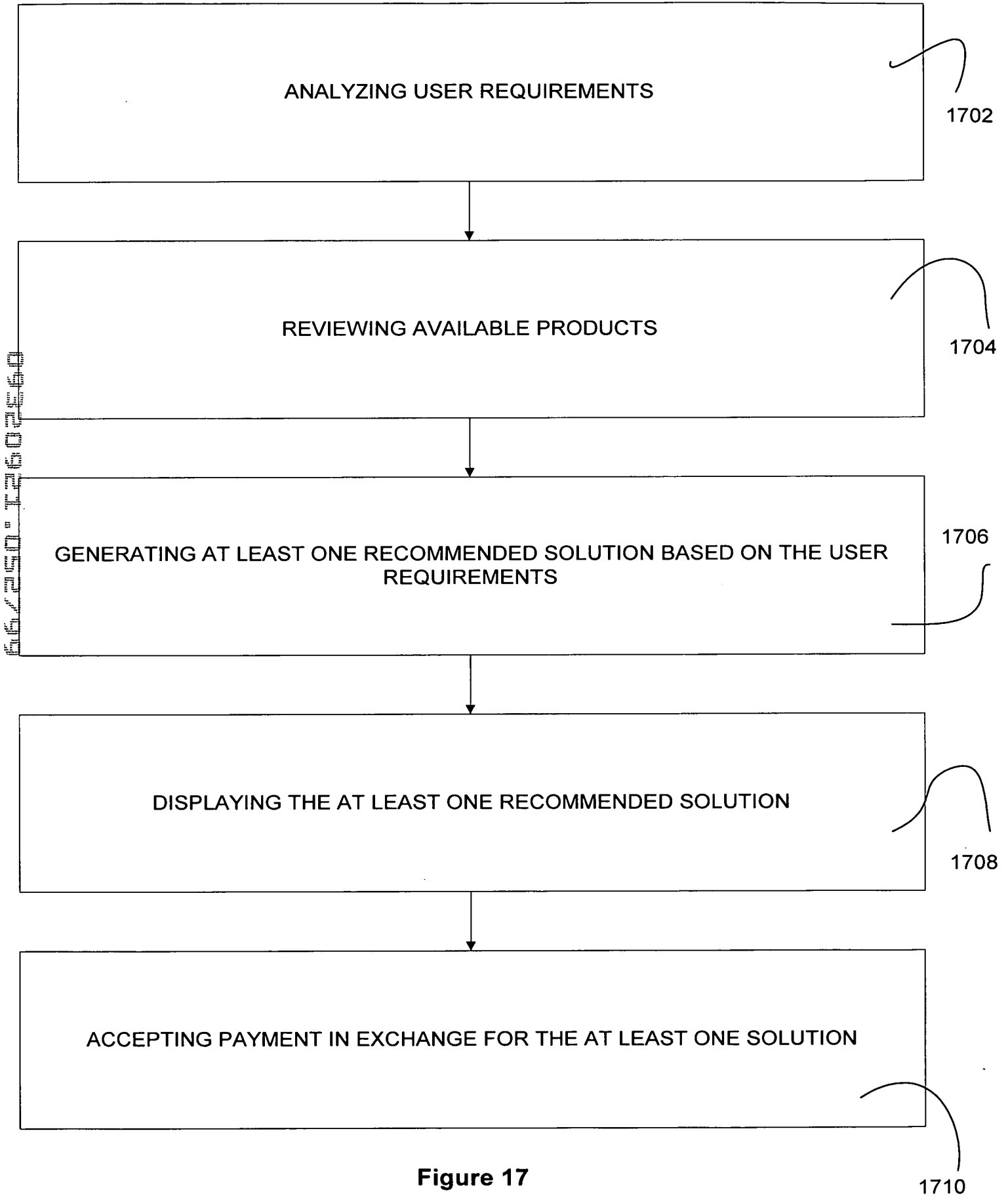
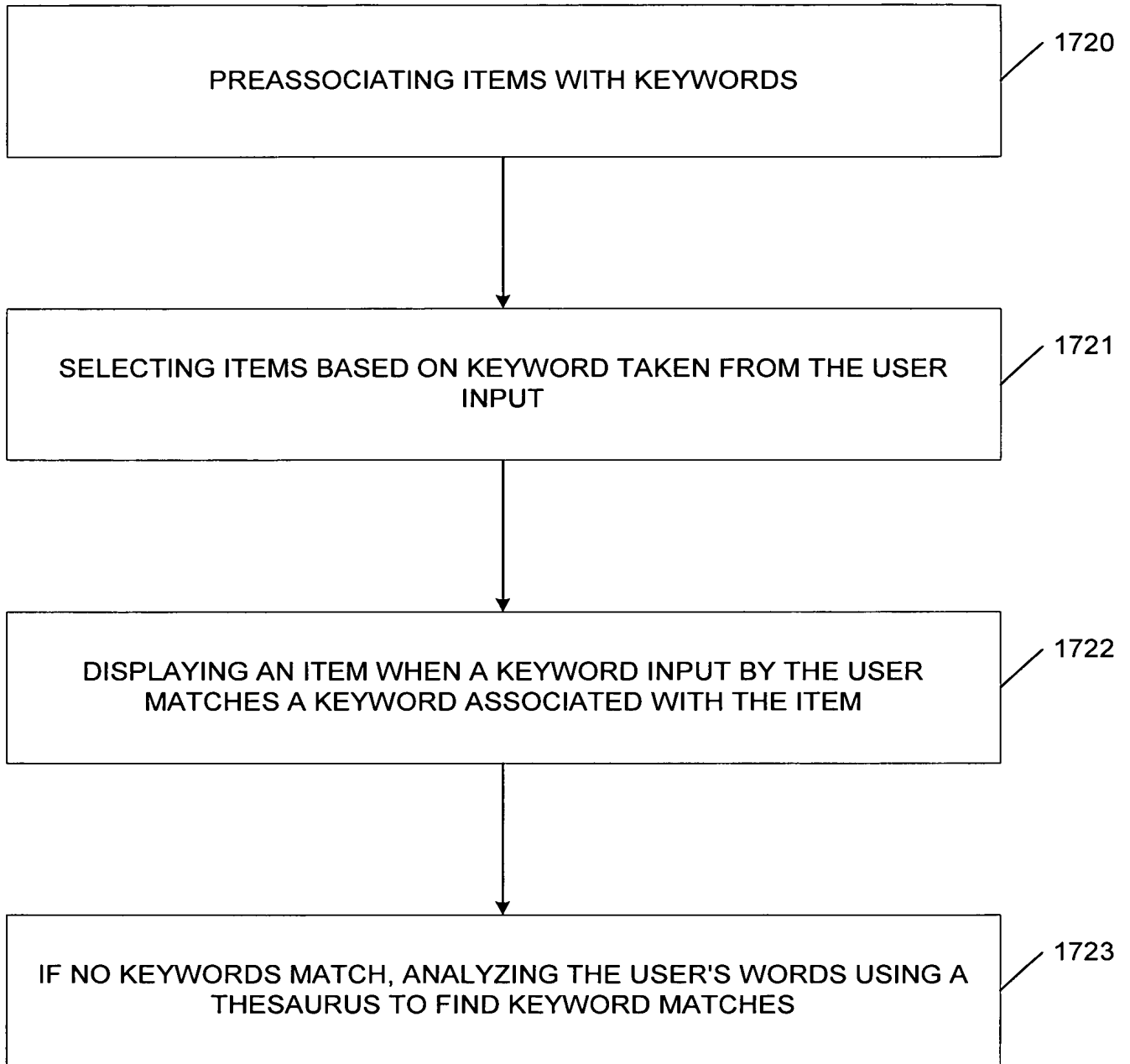


Figure 16B

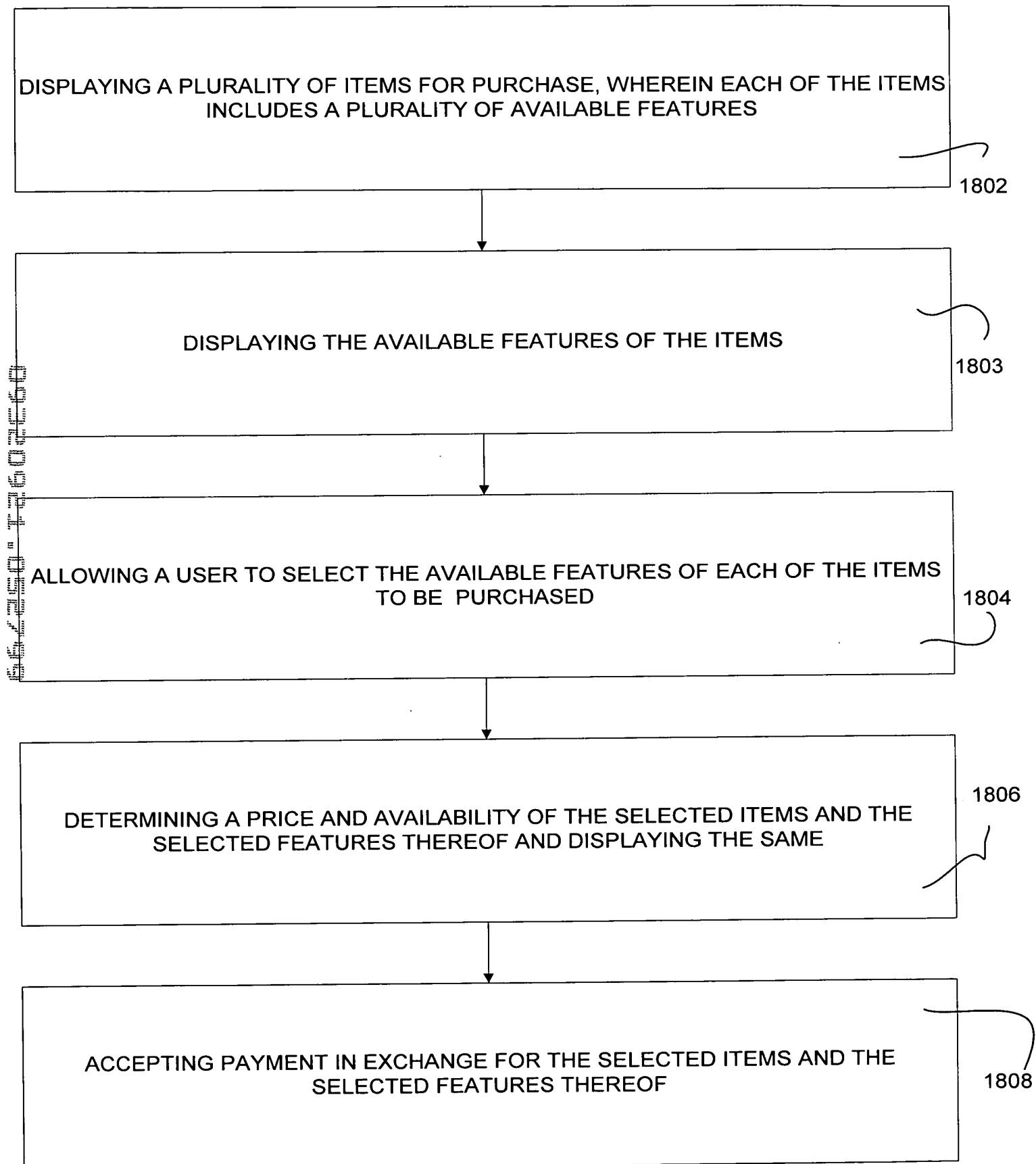


09320921.052799  
66250" T2602E60

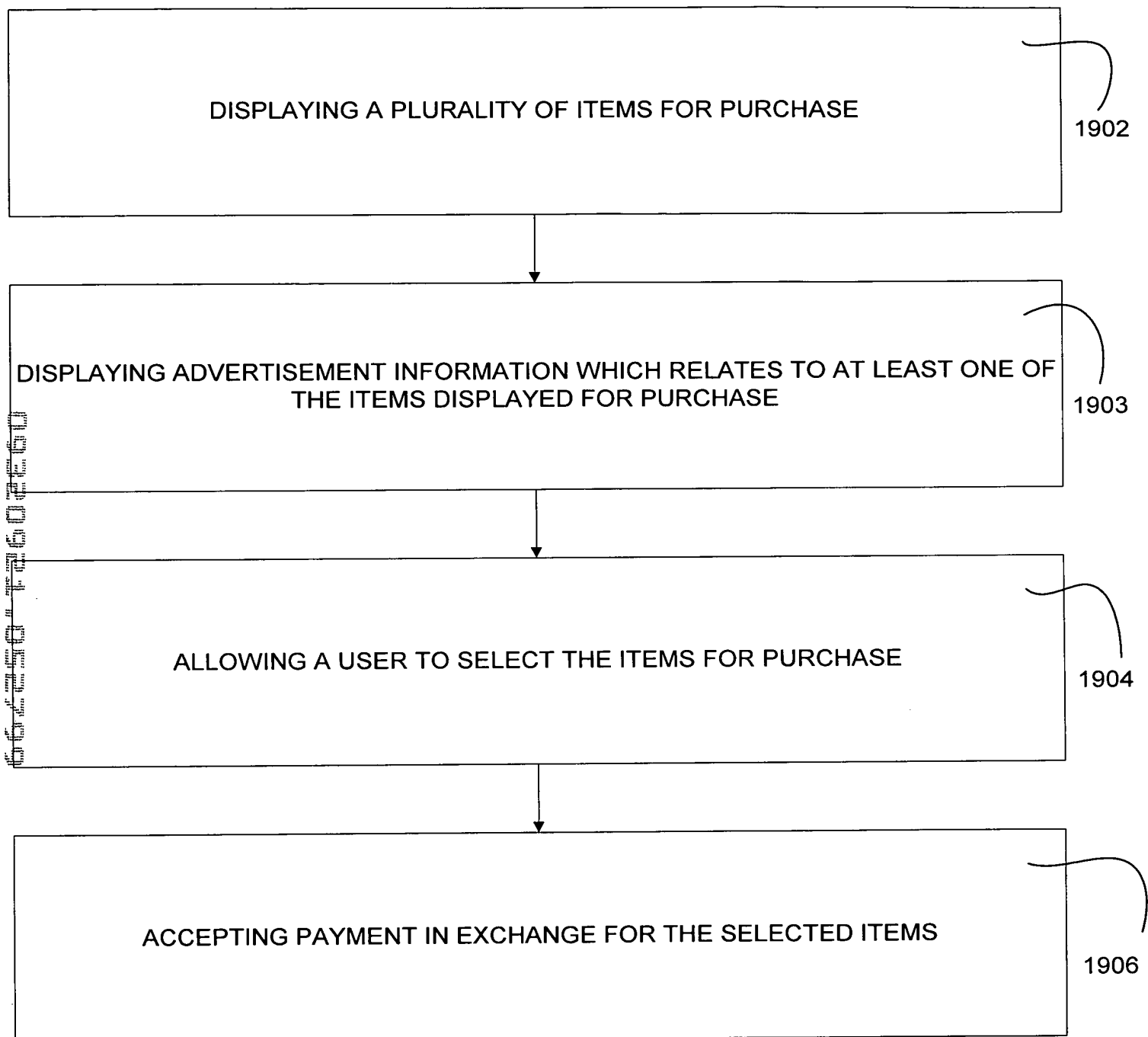


**Figure 17A**

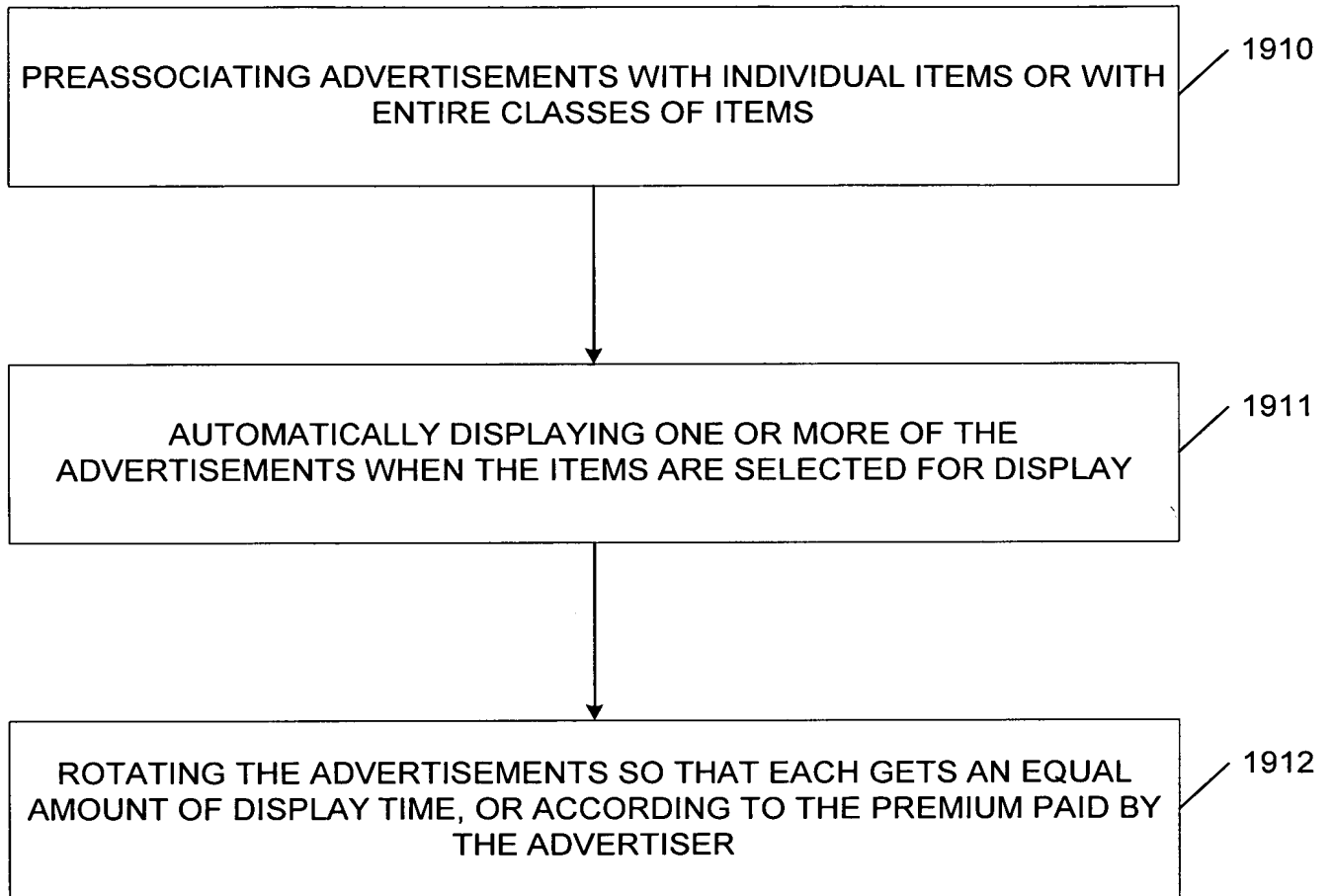
1706



**Figure 18**

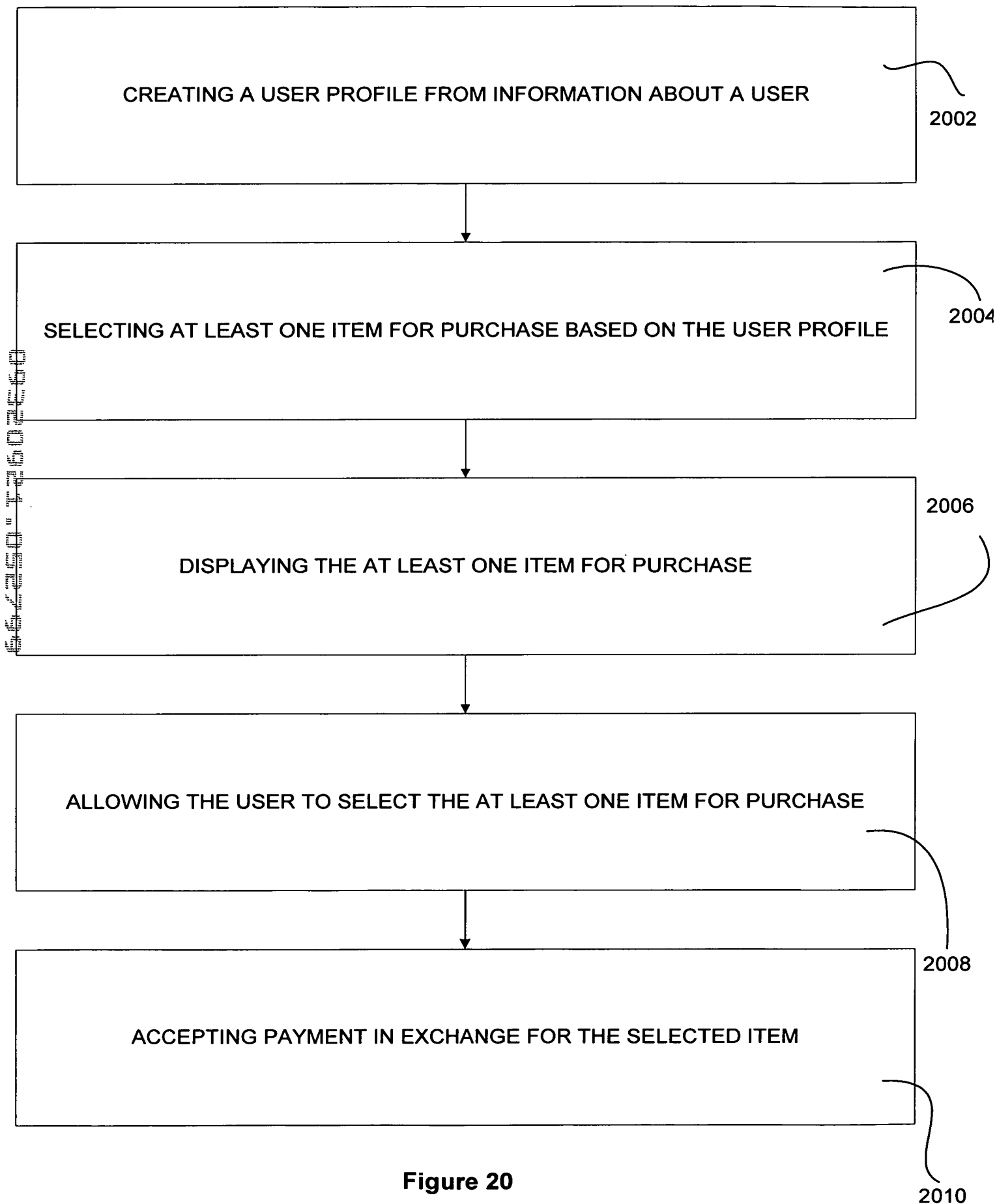


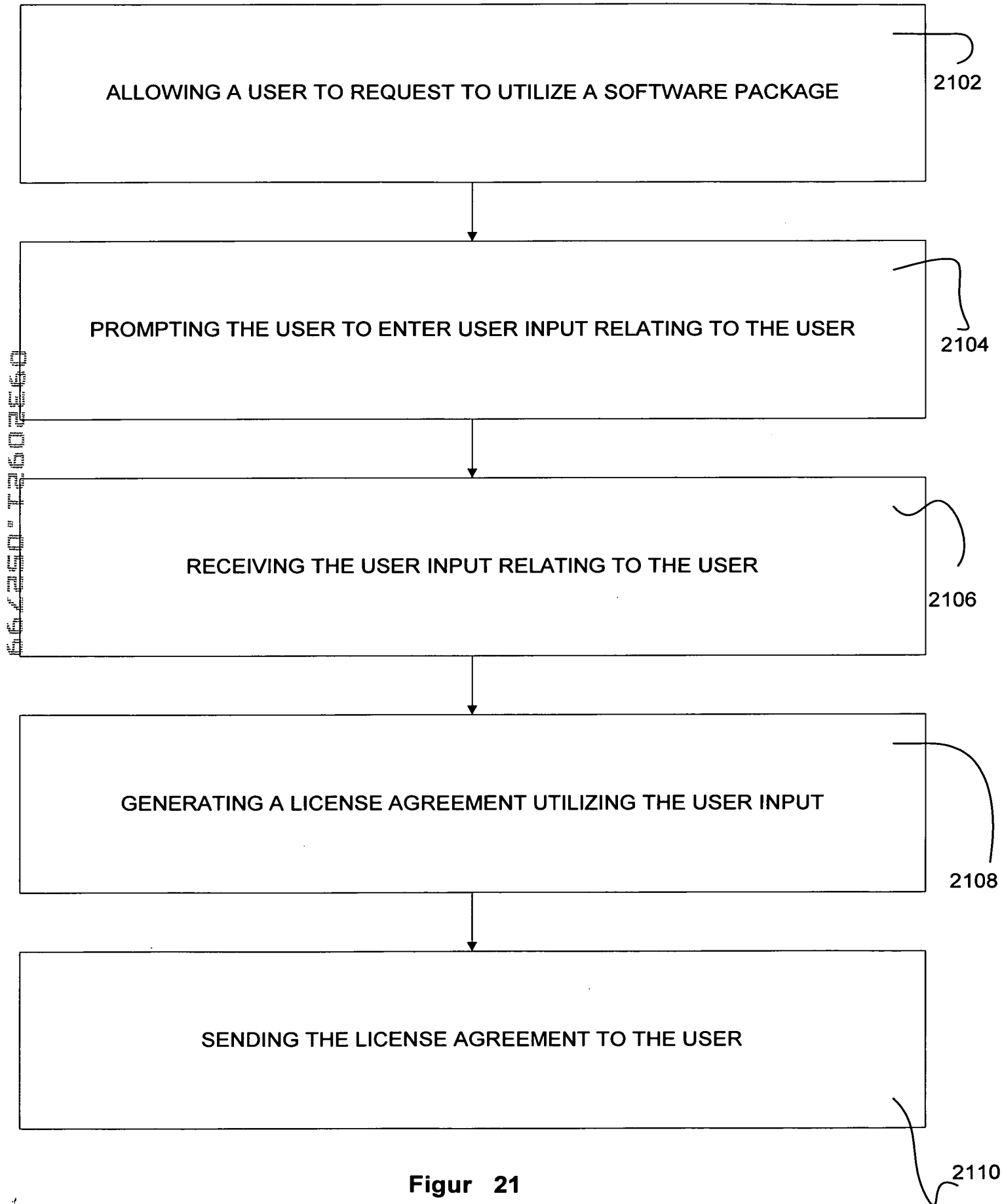
**Figure 19**



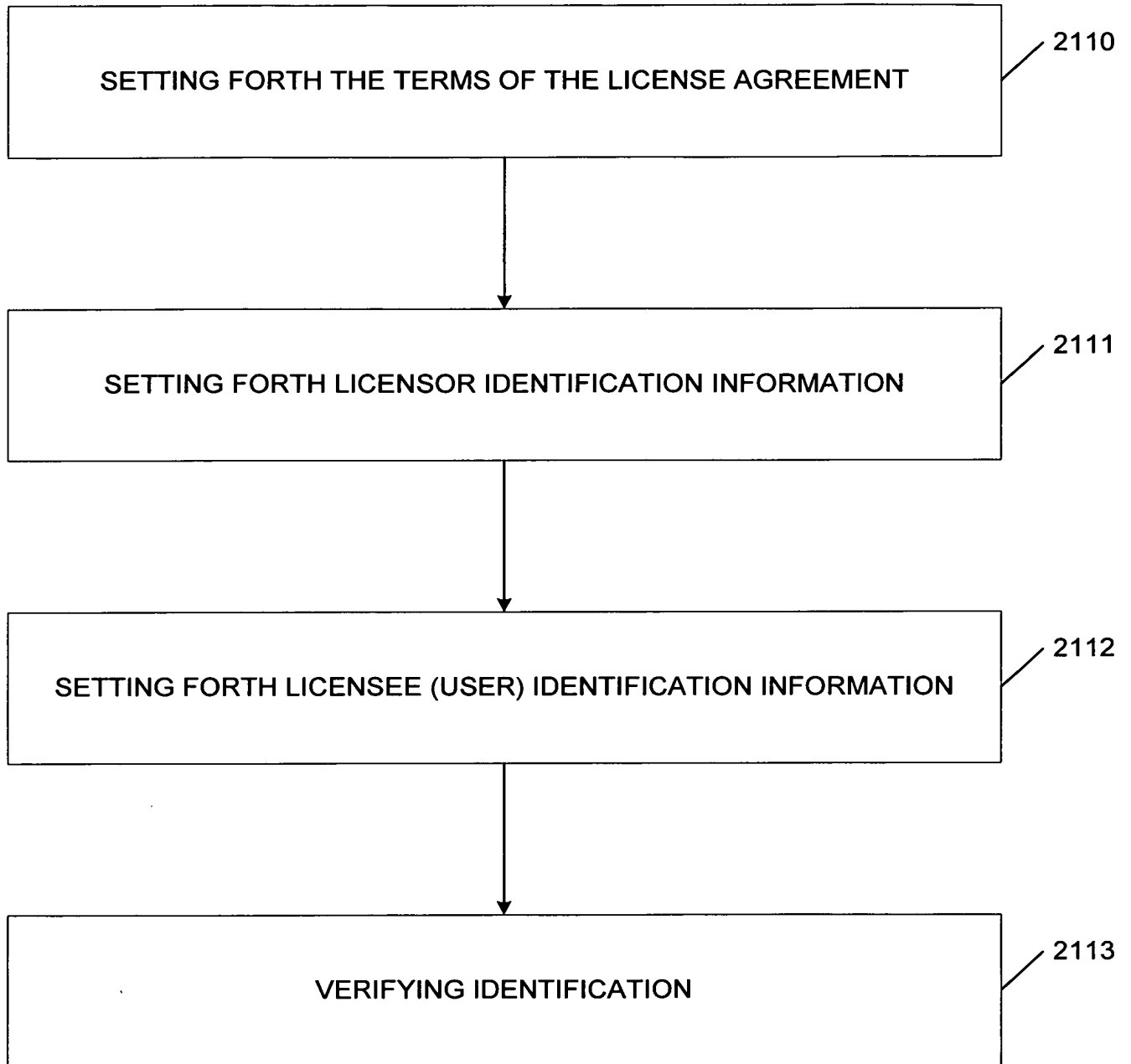
1903

**Figure 19A**



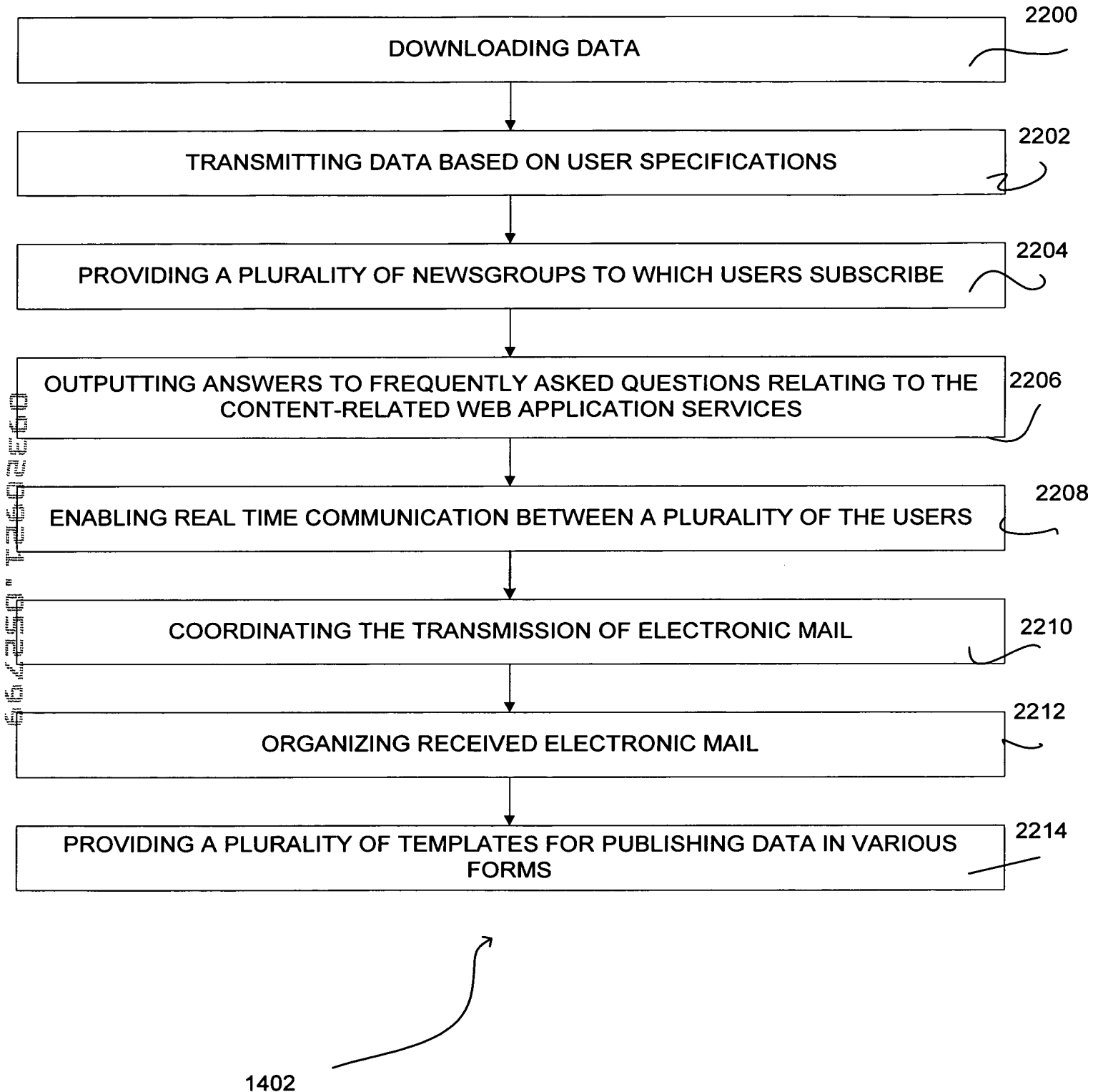


09320921.052739  
66/250 T2602E60

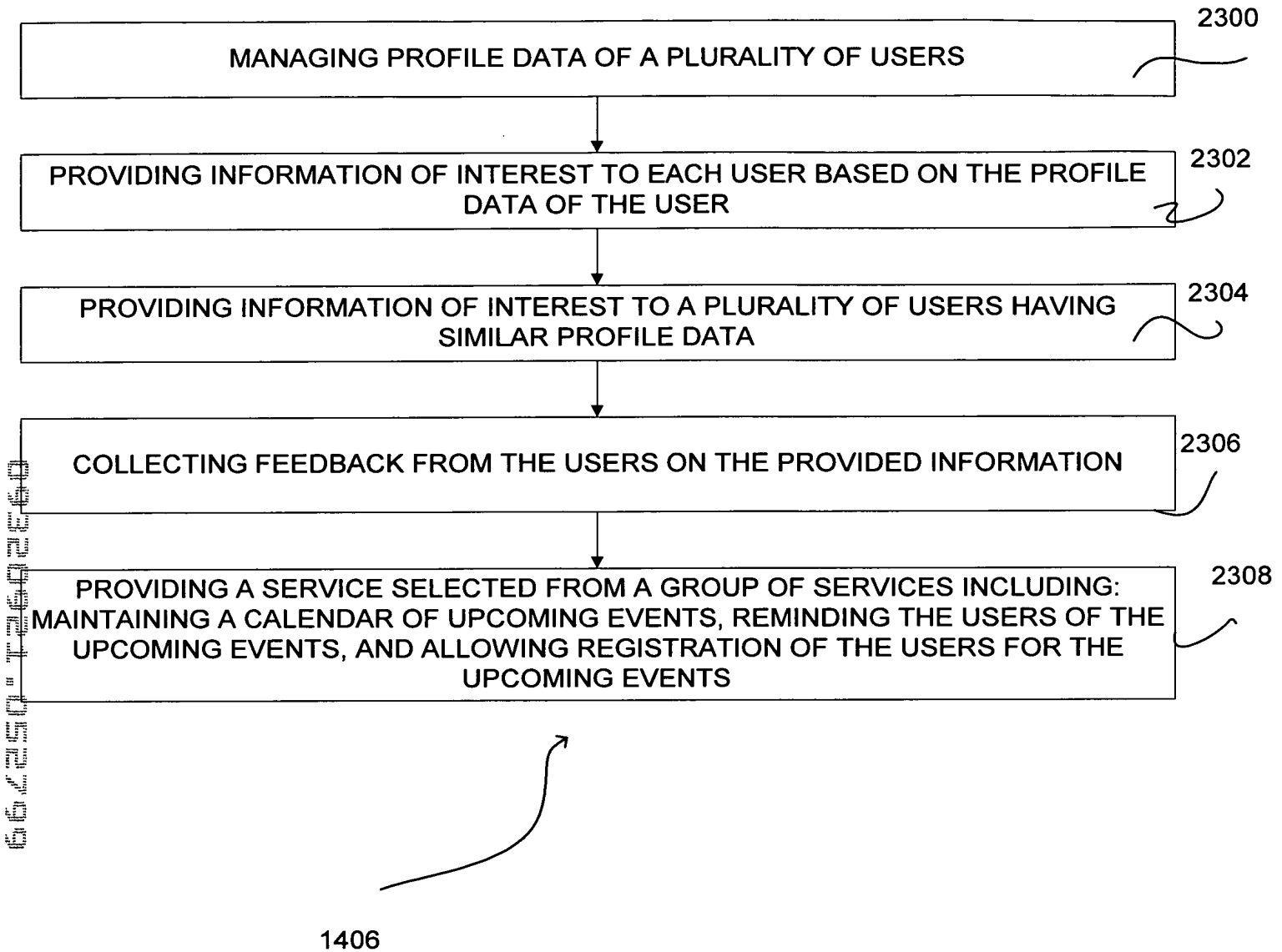


2108

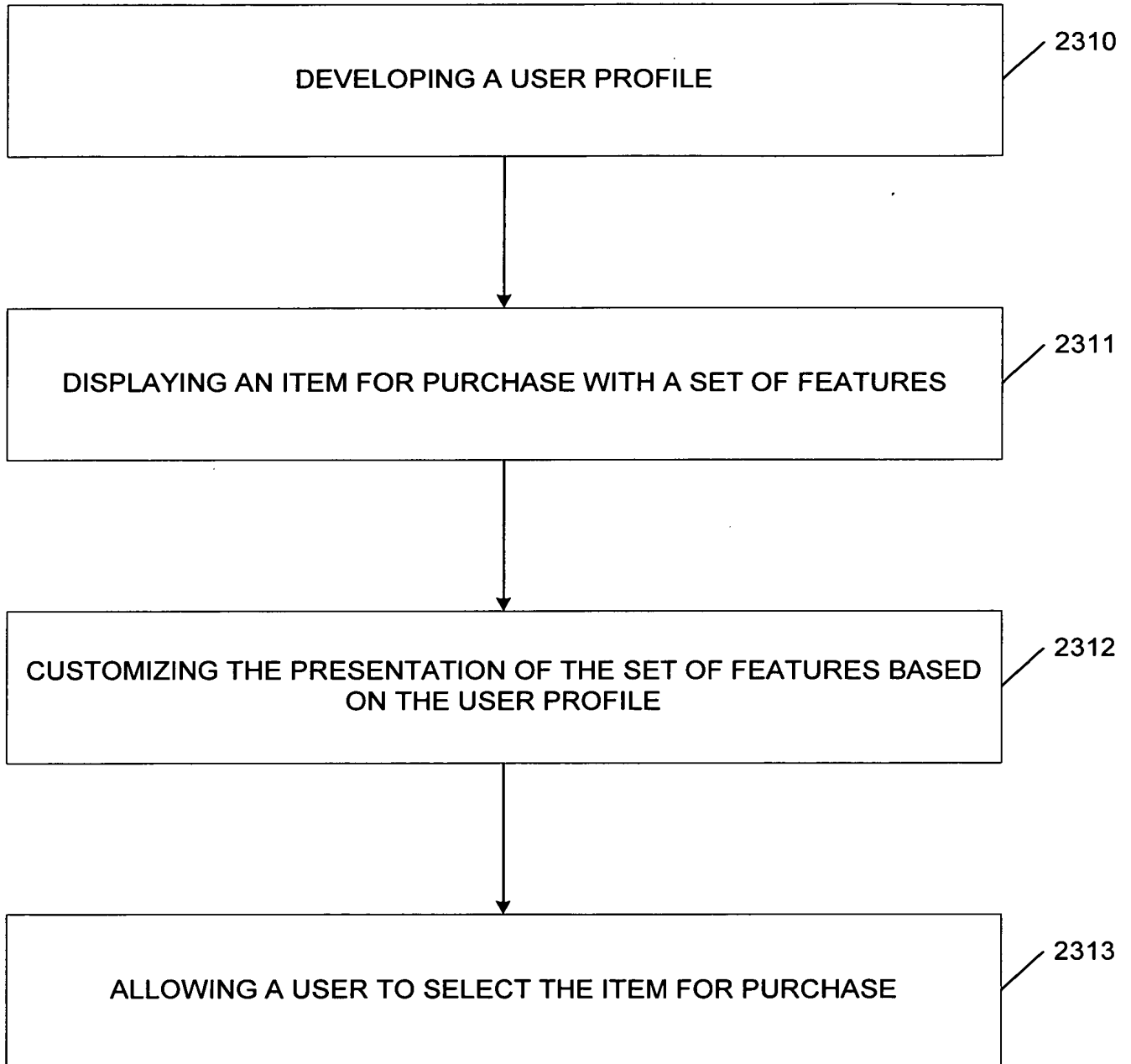
Figur 21A



**Figur 22**

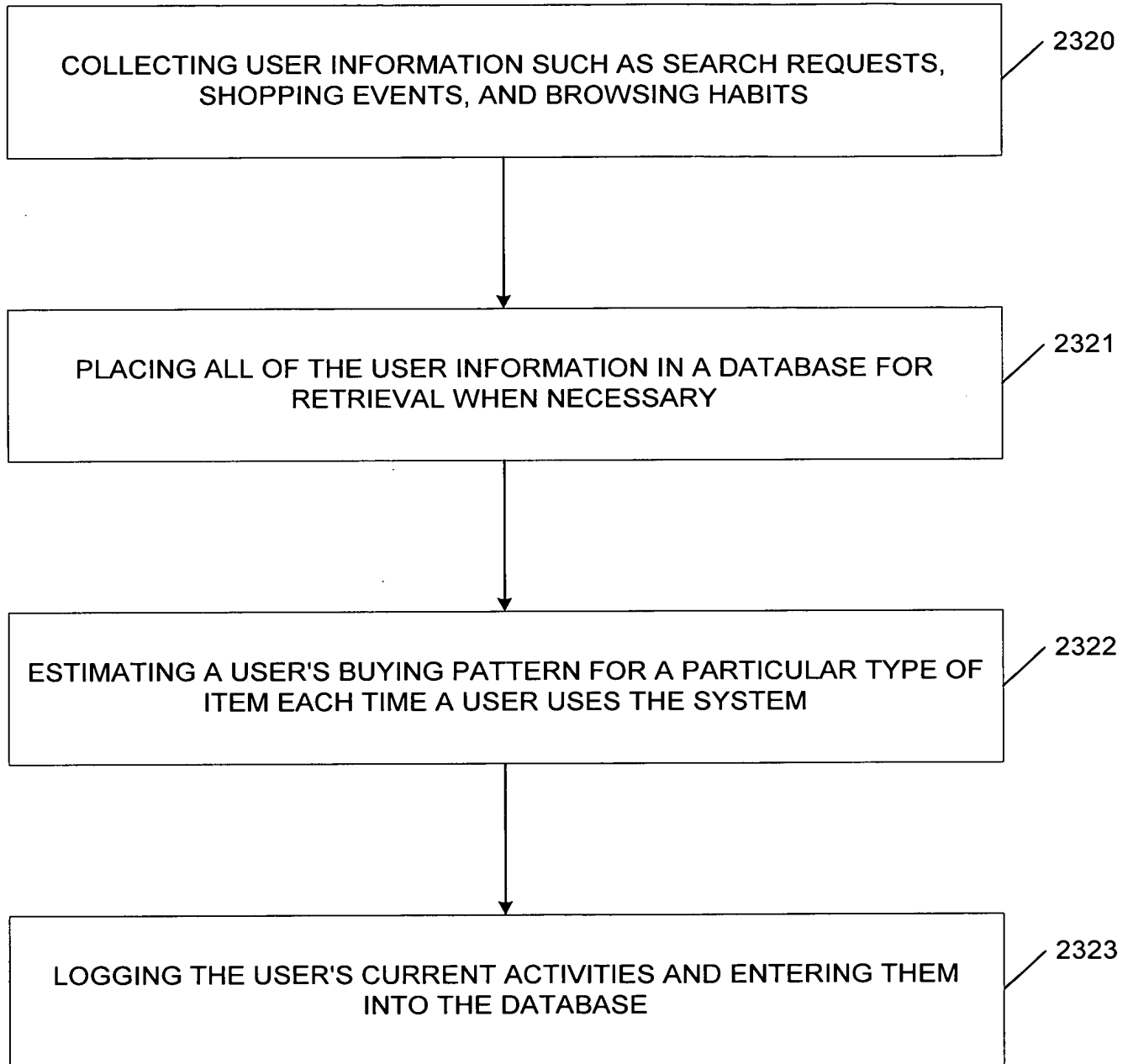


**Figur 23**



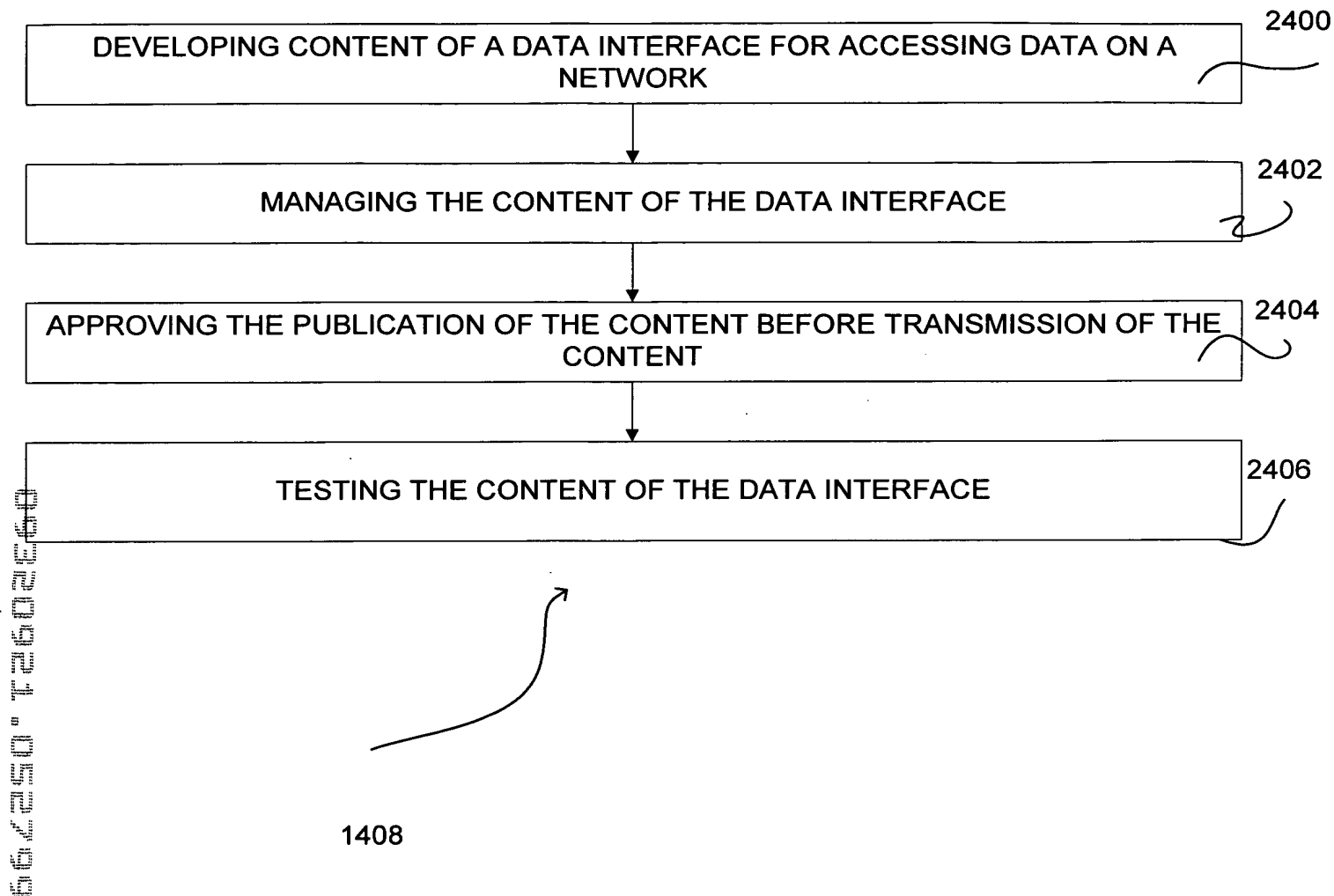
2300

Figure 23A

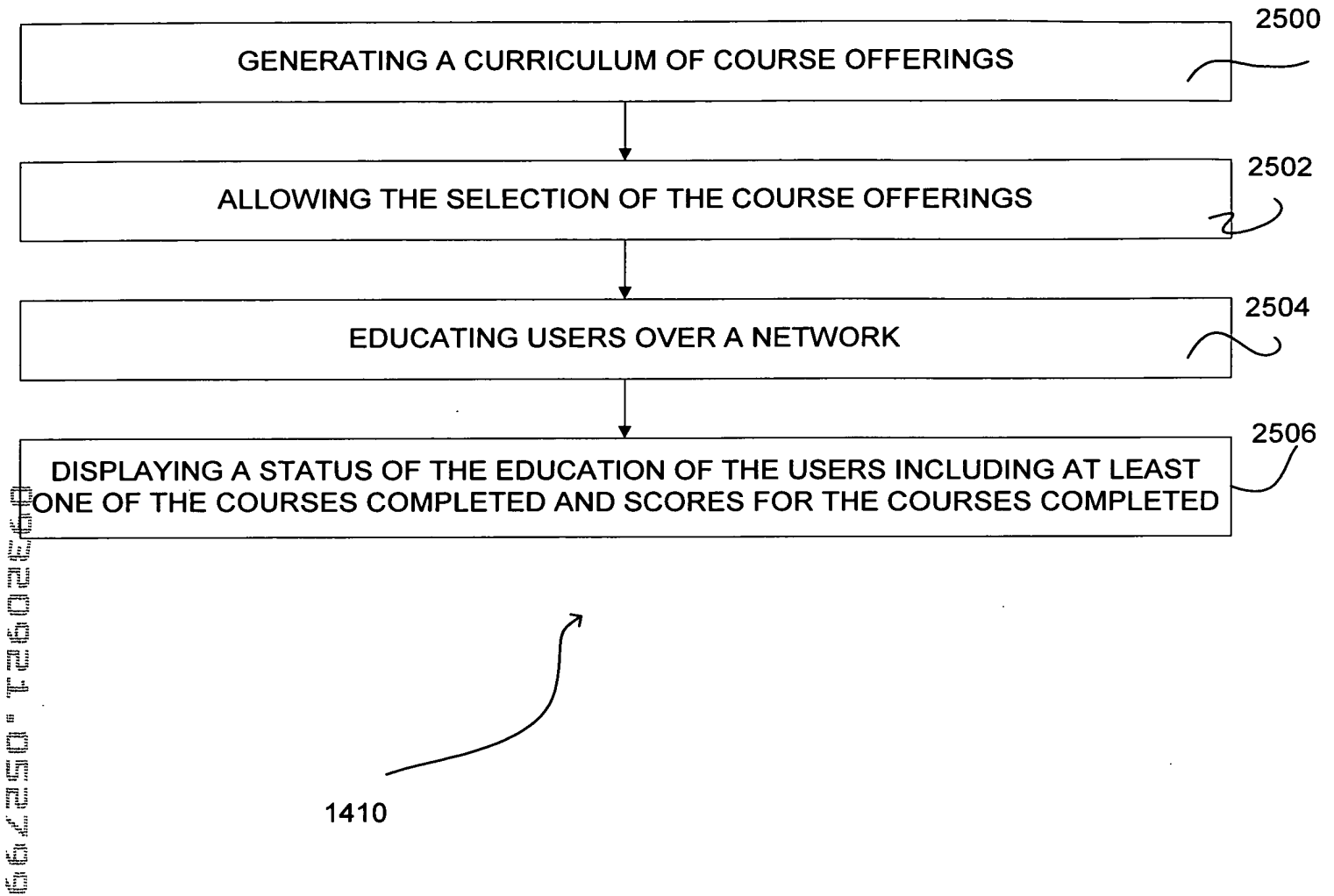


2310

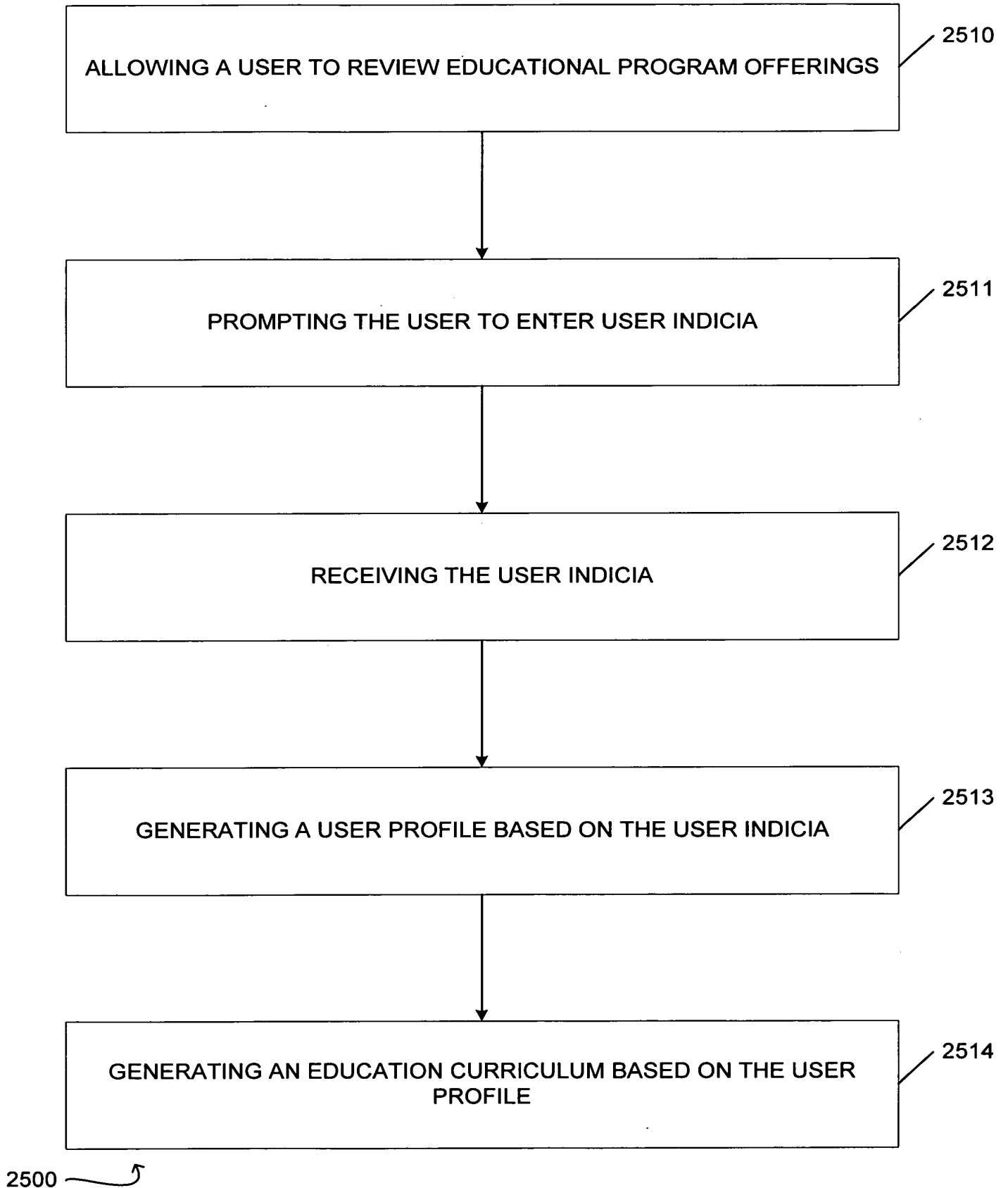
**Figure 23B**



**Figure 24**

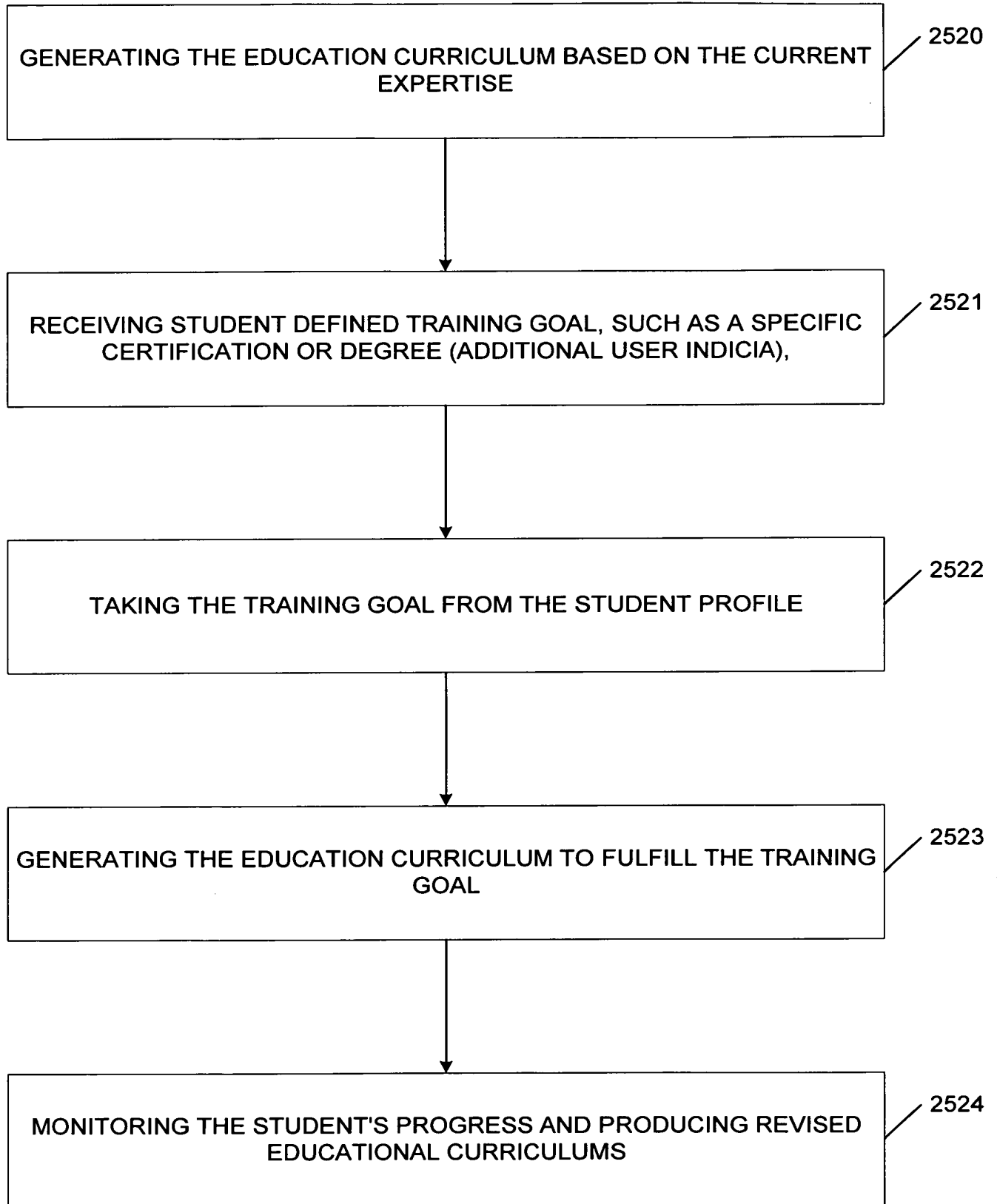


**Figur 25**

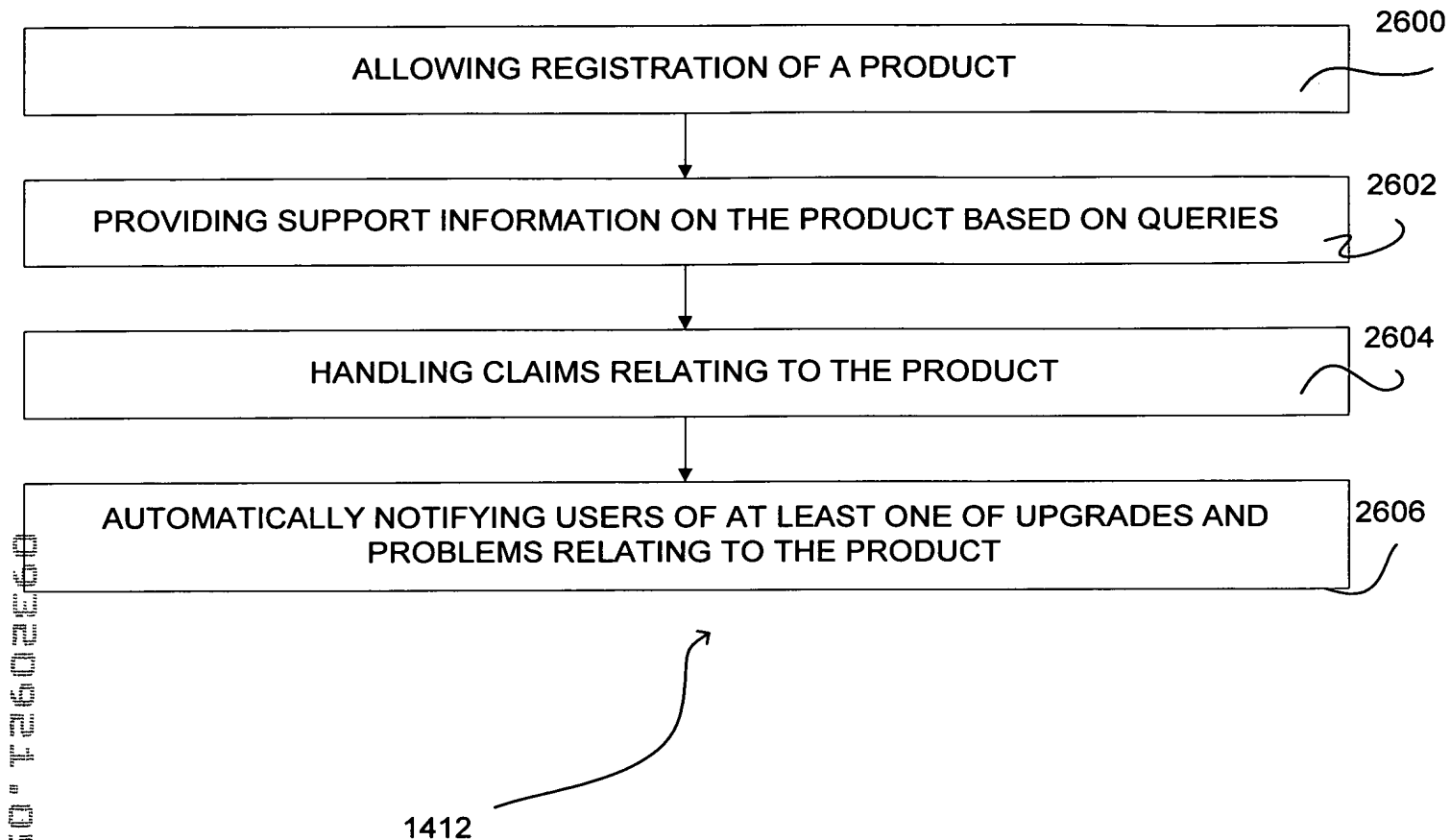


Figur 25A

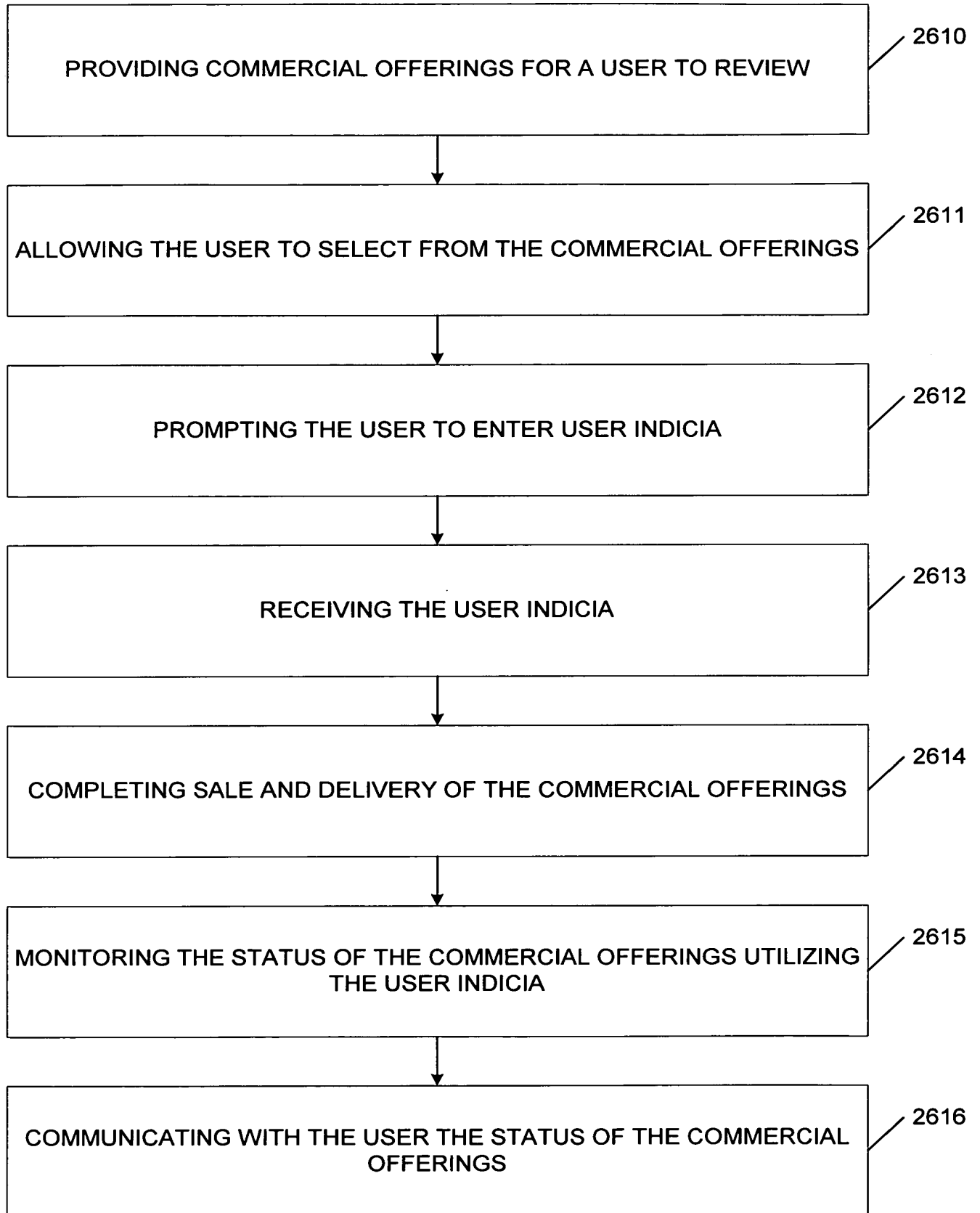
664250" T2602E60



Figur 25B

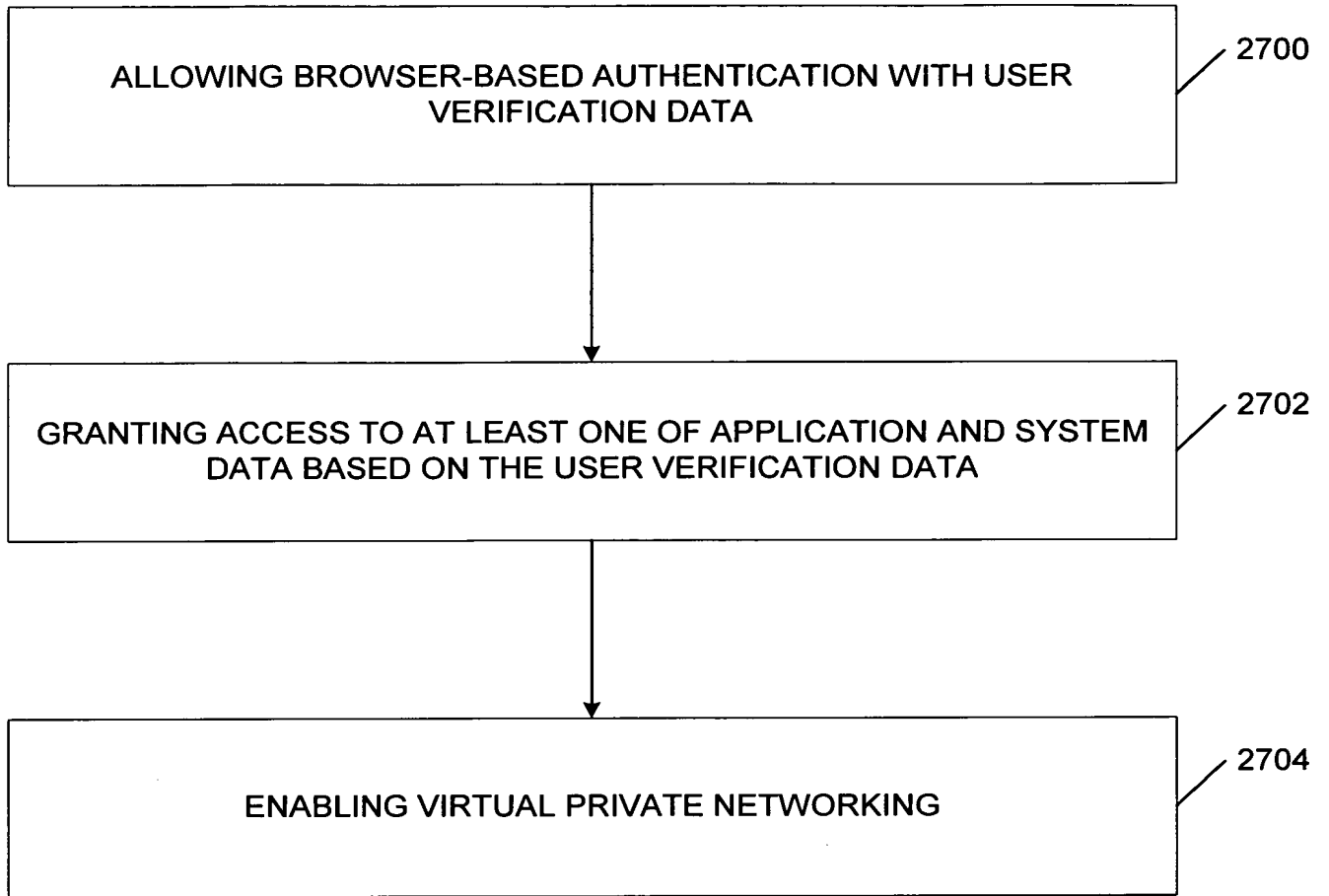


**Figur 26**



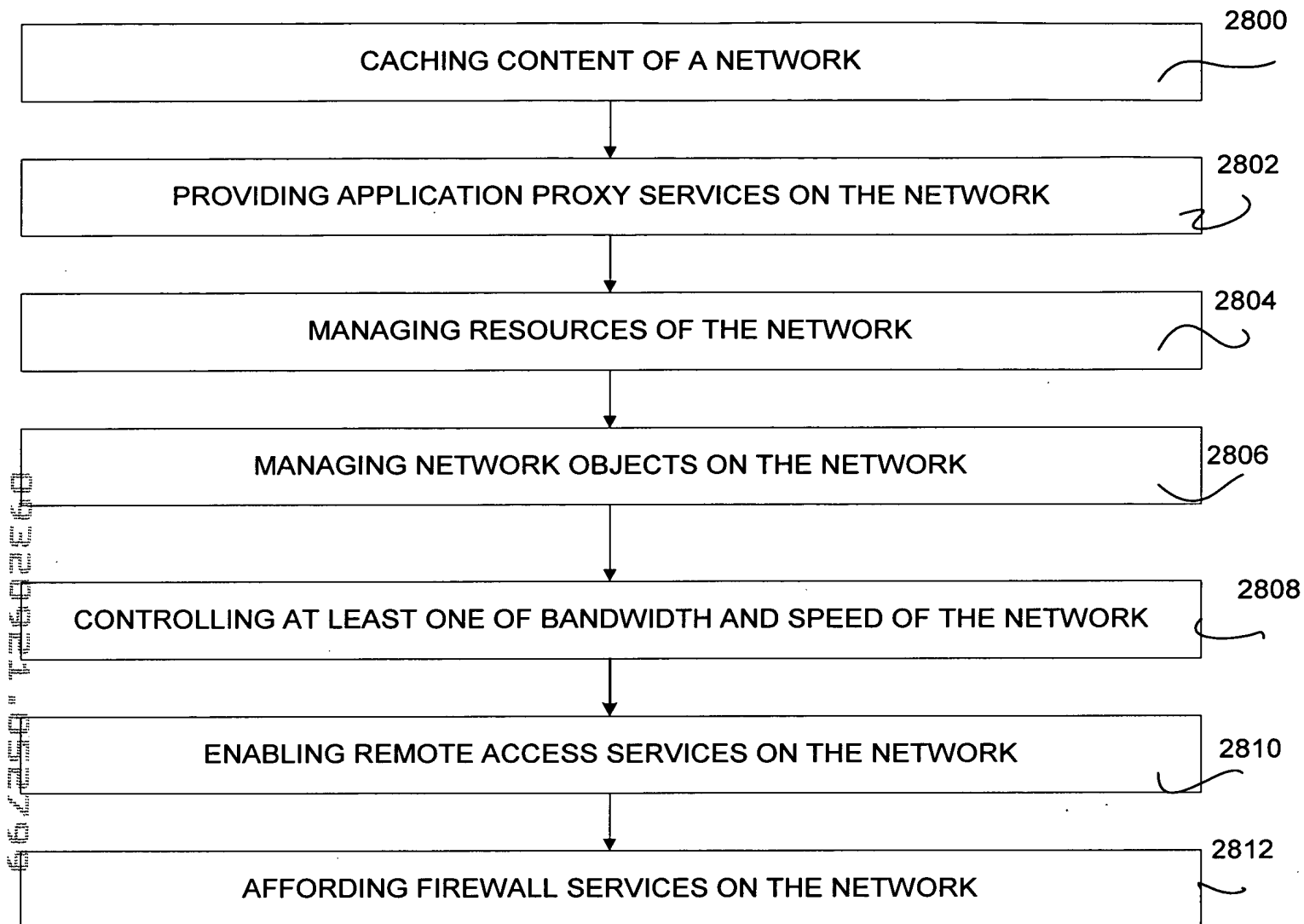
2606 ↪

**Figure 26A**

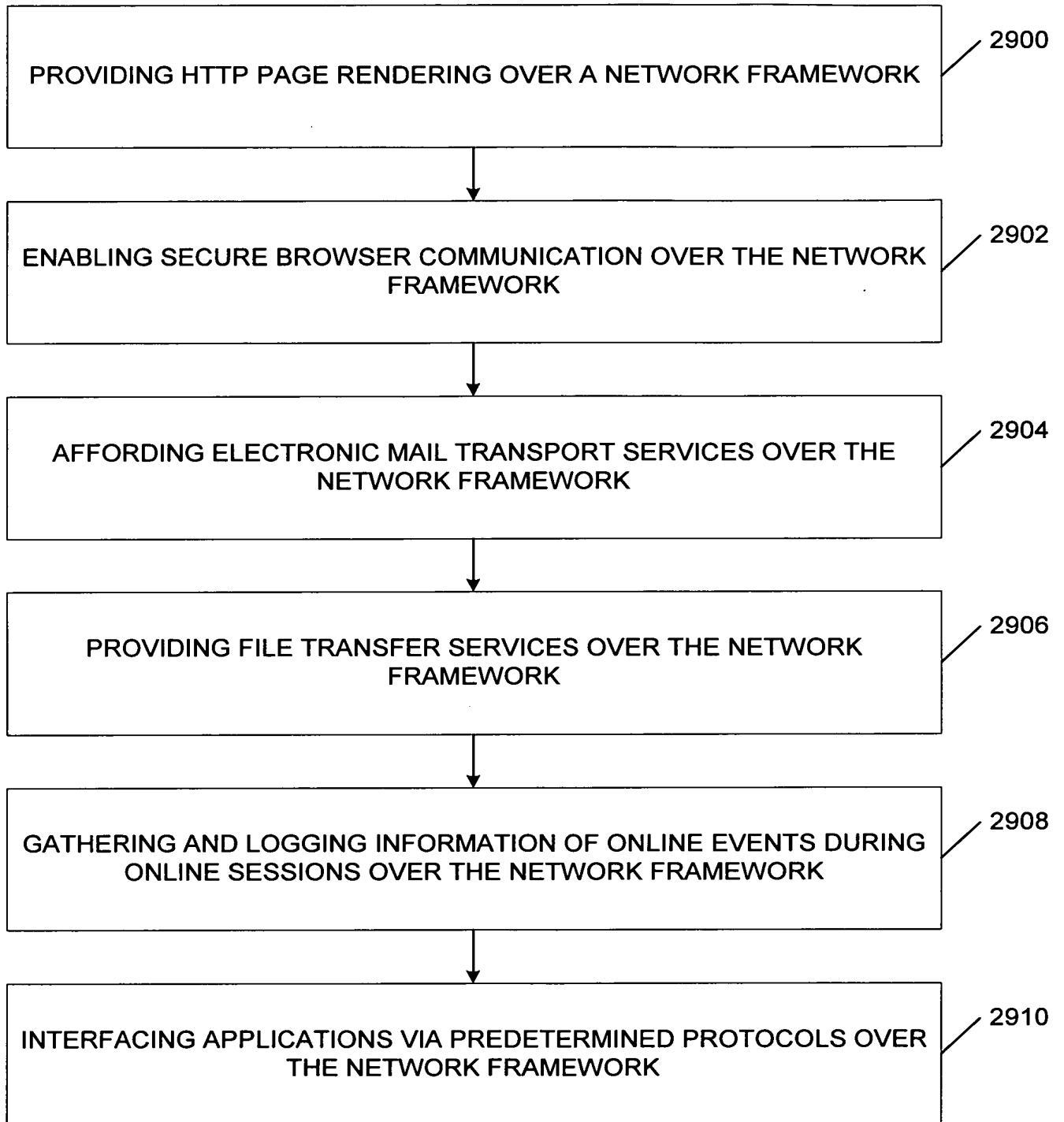


**Figure 27**

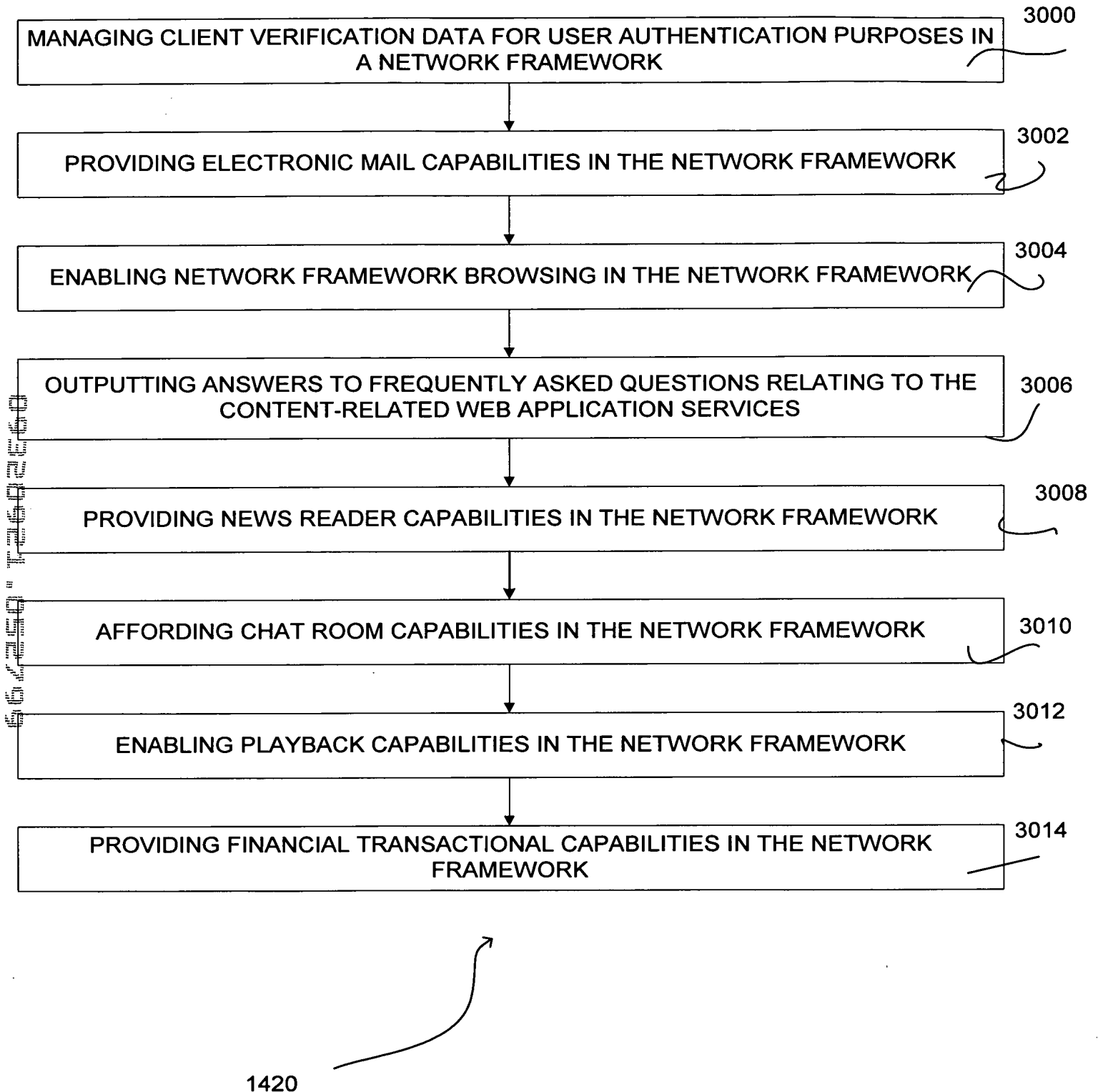
1414



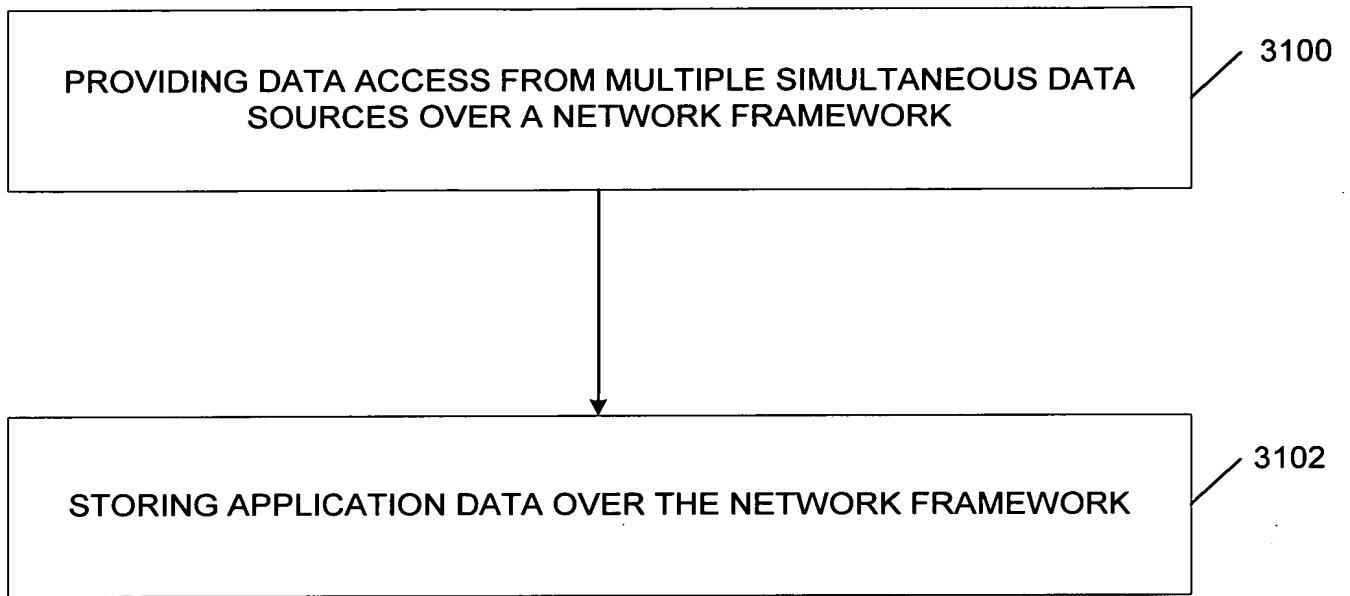
**Figure 28**



Figur 29

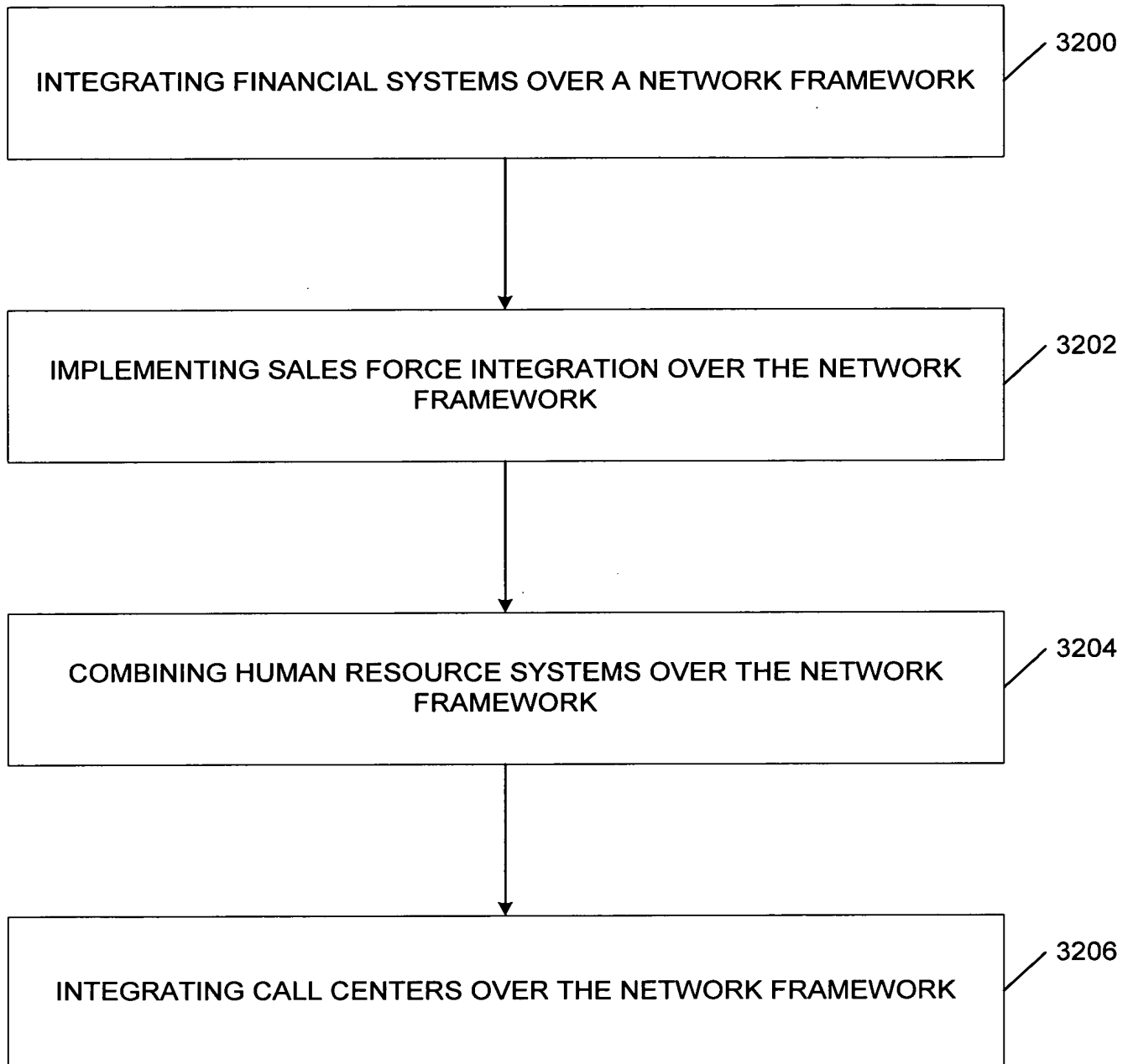


Figur 30



**Figure 31**

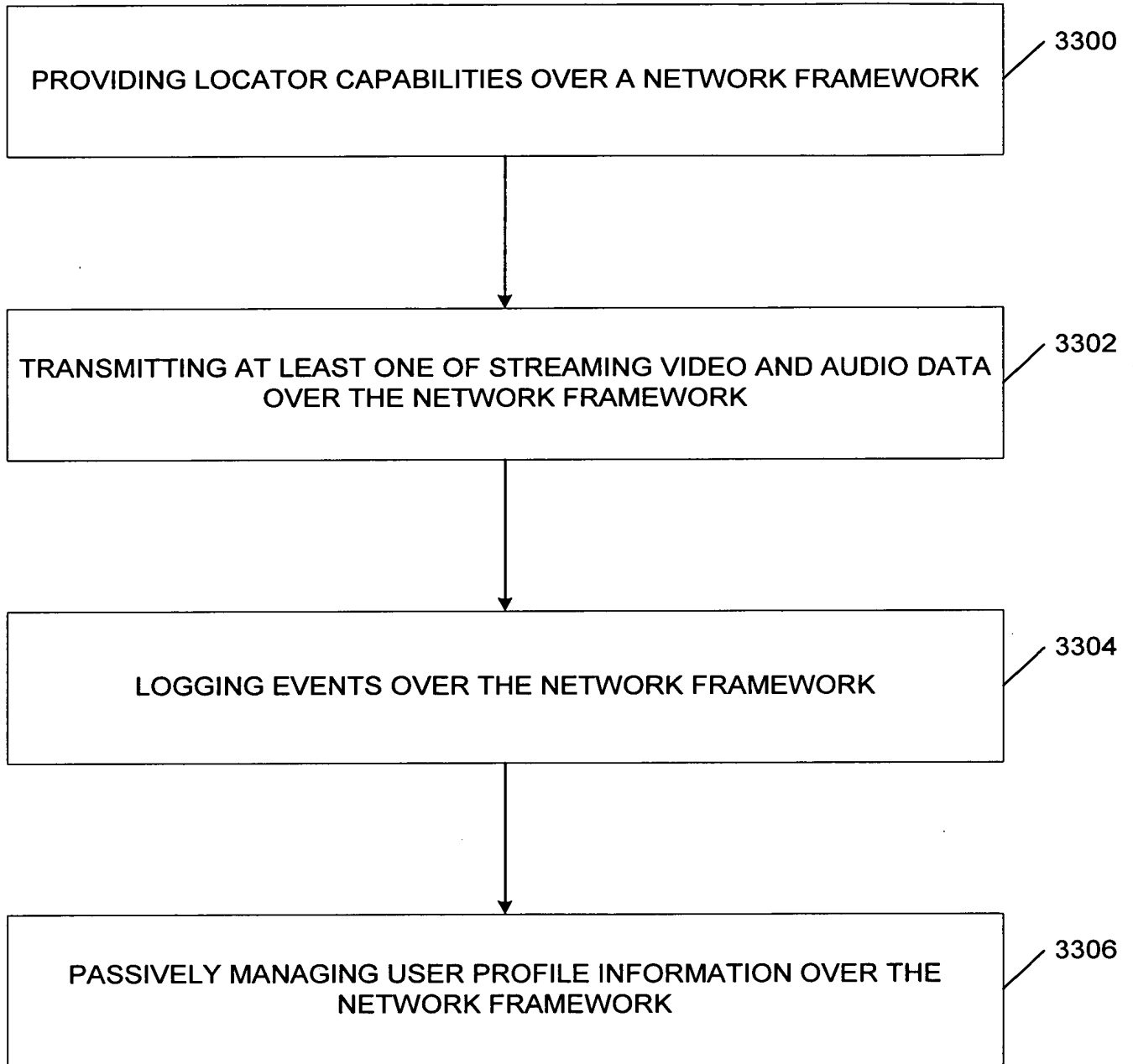
1424



1422

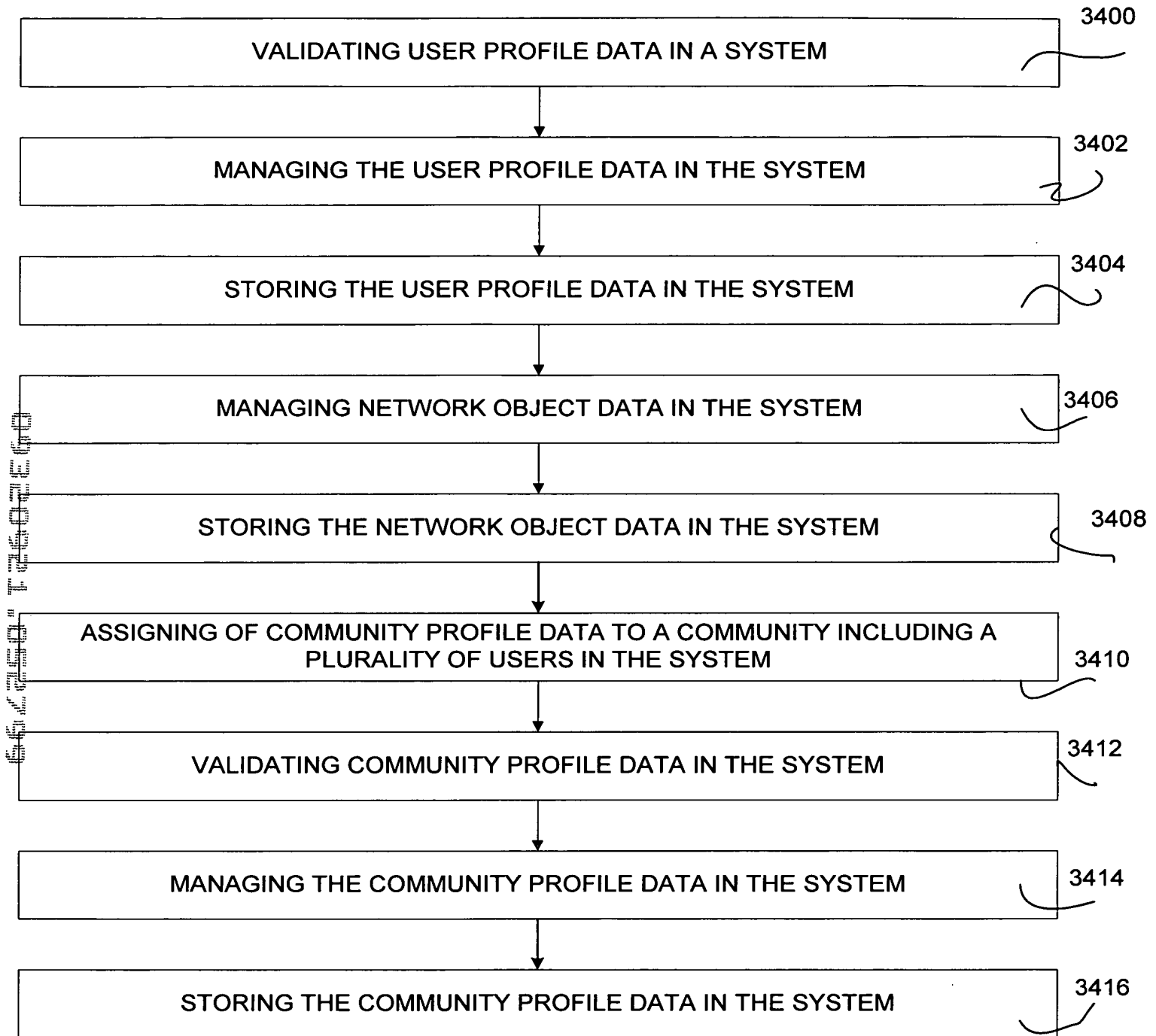
Figure 32

0930921.03739  
662250" T2602E60



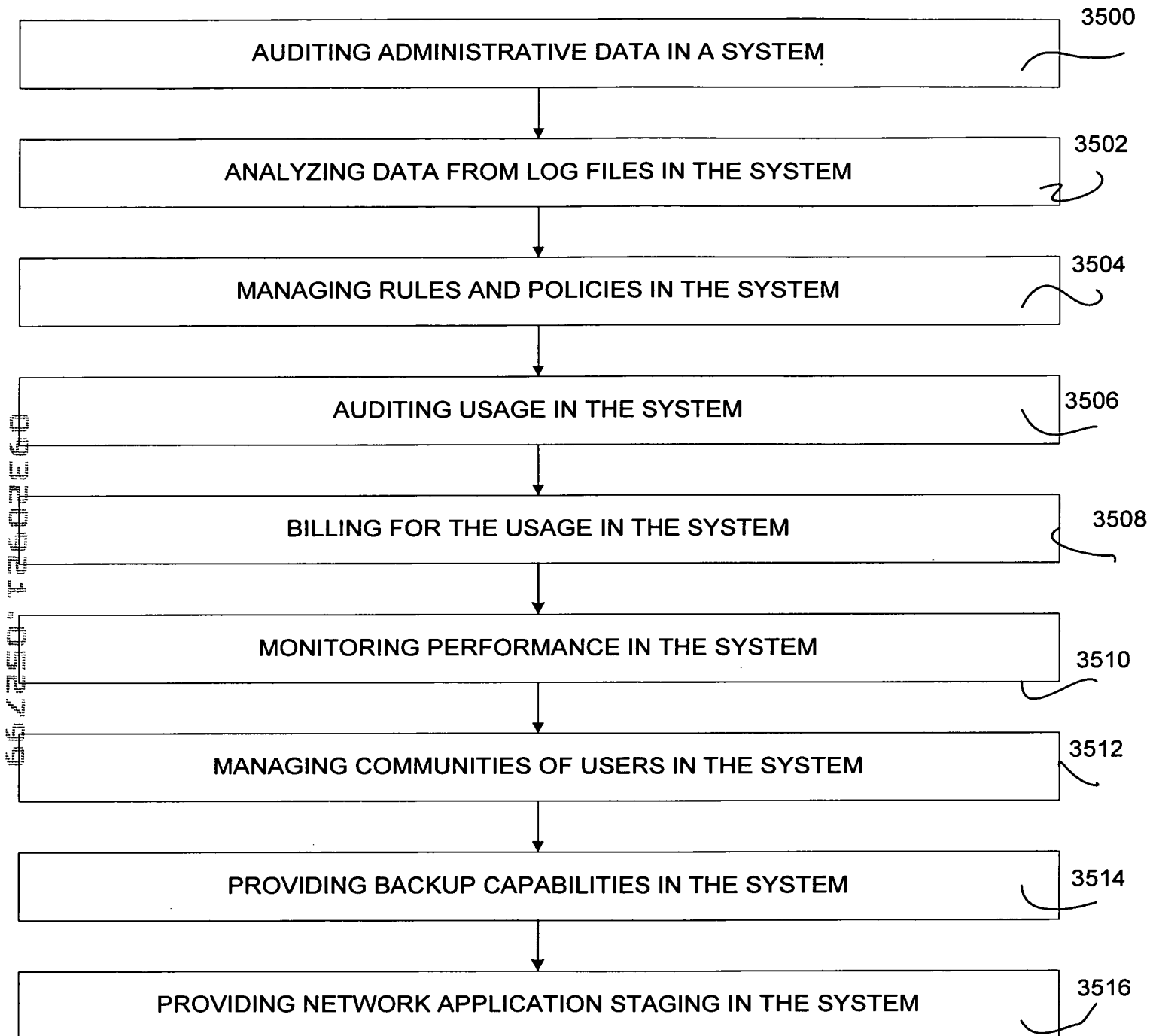
1426

Figure 33



1428

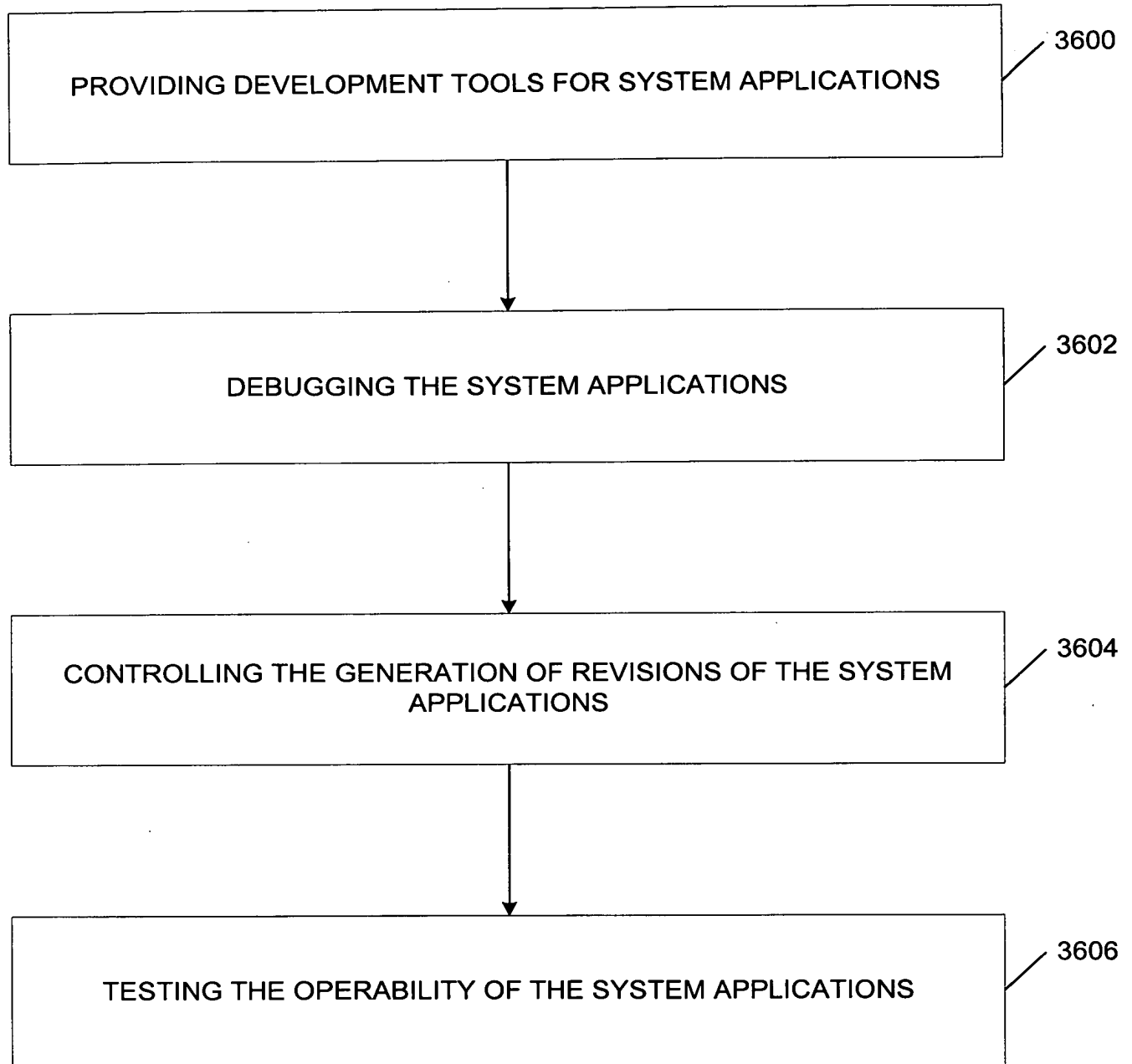
**Figur 34**



1430

**Figur 35**

66/250" T2602E60



1432

Figure 36